

---

**From:** MFL(b)(6)  
**Sent:** Thursday, July 30, 2015 10:28 PM  
**To:** LeDuc, James W.  
**Subject:** Re: Next steps on the CAS NAS bio workshop?

Jim, I will be the meeting and talk with them about the final

发自我的 iPhone

在 2015年7月8日, 下午11:26, LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)> 写道:

For your information.

**From:** 施一 [<mailto:shiyi@im.ac.cn>]  
**Sent:** Friday, July 03, 2015 1:35 AM  
**To:** Lowenthal, Micah  
**Cc:** 吴莹; [masf@im.ac.cn](mailto:masf@im.ac.cn); [baiyu@im.ac.cn](mailto:baiyu@im.ac.cn); &#160@im.ac.cn; 孙辉; Lei Zhang; 高福; LeDuc, James W.; 'David Franz'  
**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Micah,

I am Yi Shi, you can call me Sam. Nice to meet you.

For September 29-30 meeting, George have suggested a list of Chinese experts.

Qiang Wei	Safety, Security, Regulation and Progress
Zhiming Yuan	High Containment Labs
Jinhua Liu, Yi Shi	Influenza
Cheng Cao	Gain of Function
Wuchun Cao, Di Liu	Ebola
Wenjie Tan, Deyin Guo	MERS
George F Gao	Areas for Enhanced Cooperation

Later we'll collect their CVs and talk topics.

Best Wishes.



Sam  
Ph.D  
CAS Key Laboratory of Pathogenic Microbiology and Immunology (CASPMI)  
Institute of Microbiology, Chinese Academy of Sciences (IMCAS)  
1#, BeiChenXi Road, Chaoyang District  
Beijing  
P. R. China  
Zip Code: 100101  
Tel: 86-10-64807569 (o)  
Fax: 86-10-64807598

Lowenthal, Micah 写:

Dear Ying,

On behalf of my colleagues here, Congratulations! We will gladly work with Dr. Shi and Dr. Ma. We wish you and your family good fortune and great happiness.

Micah

Dear Dr. Shi and Dr. Ma,

It is nice to make your acquaintance by e-mail. The long string of correspondence about this meeting is below. You will see the history of the discussions, including in the May 13 e-mail from Dr. Franz a description of discussions with the Chinese Biological Scientists Group and Dr. Cheng Cao of the Beijing Institute of Biotechnology, and later exchanges concerning the agenda. Attached please find brief biographical sketches of the planned U.S. participants in the September 29-30 meeting.

Also, I have attached a letter from the President of the National Academy of Sciences (NAS), the President of the National Academy of Medicine (NAM), and the Vice President of the NAS to the President of the Chinese Academy of Sciences. The NAS and NAM are conducting a study and a workshop on genome editing technologies and their implications. The letter suggests that we could make good use of the opportunity of having a set of life-science experts from the NAS in Beijing to have a discussion of genome editing issues on September 28. We wanted to you to know about this correspondence and we would be glad to discuss the possible meeting.

Thank you for your attention to these matters. We look forward to working with you.  
Micah Lowenthal

---

**From:** 吴莹 [wuying@im.ac.cn]

**Sent:** Sunday, June 28, 2015 2:31 AM

**To:** Lowenthal, Micah; shiyi@im.ac.cn; masf@im.ac.cn; baiyu@im.ac.cn

**Cc:** &#160@im.ac.cn; 孙辉; Lei Zhang; 高福; James W. LeDuc; 'David Franz'

**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Micah,

Sorry to say that I will have to take (b)(6) from the beginning of July and could not get access to network timely. We are contacting the potential Chinese speakers these days and will be fixed soon. My colleagues Dr. Yi Shi (shiyi@im.ac.cn), Dr. Sufang Ma (masf@im.ac.cn) and Ms Yu Bai (baiyu@im.ac.cn) will follow up this issue in my absence. I also copied this email to them. Hope everything goes smoothly.

Best,  
Ying

Lowenthal, Micah 写:

Dear Dr. Wu,

At the end of his e-mail to you, Ben Rusek mentioned that he will be on a sabbatical until 17 August. I will serve as the NAS staff contact for this activity over the next two months, until Ben returns. Please feel free to contact me with any questions, concerns, or requests. We can begin by providing you with brief biographical sketches of the participants listed below, if that would be useful to you.

With best regards,

Micah

---

Micah D. Lowenthal, Ph.D.  
Program Director, Policy and Global Affairs Division  
The National Academy of Sciences  
500 Fifth Street, NW 5th floor  
Washington, DC 20001 USA  
telephone: +1 (202) 334-3074  
fax: +1 (202) 334-1730  
e-mail: [mloenthal@nas.edu](mailto:mloenthal@nas.edu)

---

---

**From:** Rusek, Benjamin

**Sent:** Tuesday, June 16, 2015 5:48 PM

**To:** '??'

**Cc:** 孙辉; Lei Zhang; 高福; James W. LeDuc; 'David Franz'; Lowenthal, Micah

**Subject:** RE: Next steps on the CAS NAS bio workshop?

**Importance:** High

Greetings Dr. Wu,

Sorry for the delayed response. The group we have assembled to attend the workshop on September 29-30 at the CAS Institute of Microbiology is below along with a draft of their talk topic.

David Franz	Safety, Security, Regulation and Progress: "Finding the Balance: The US Experience"
James LeDuc	High Containment Labs: "Putting the pieces of laboratory safety and global health security together"
Peter Palese	Influenza: "Paths to a Better Vaccine?"
Ruth Berkelman	Gain of Function: "NAS Gain of Function Meeting Report (The scientists' view)"
Thomas Ksiazek	Ebola: "Sustainable Austere Environment Laboratories"
Ralph Baric	MERS: "Genetic Systems and Models"
Diane Griffin	Areas for Enhanced Cooperation: "Possible roles for CAS and NAS in these areas"

The MERS-CoV suggestion is a good one and we have invited an expert to discuss the topic (and added a seventh session as you suggest). We will send you the experts biographical information as soon as we can. Have you started to reach out to Chinese experts who could speak during the sessions?

Re logistics we are in the process of making travel arrangements and will need to work with CAS to arrange for visa invitation letters in the coming weeks.

I want to let you know that I will be out of the office on a sabbatical from Thursday, June 18 until Monday, August 17. Micah Lowenthal (cced) my NAS colleague in the Policy and Global Affairs Division will be working on the project in my absence. David Franz with James LeDuc (both also cced) are still leading the planning committee on the NAS side and will likely be in contact with you.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** 吴莹 [<mailto:wuying@im.ac.cn>]  
**Sent:** Wednesday, June 10, 2015 1:40 AM  
**To:** Rusek, Benjamin  
**Cc:** 孙辉; Lei Zhang; 高福; James W. LeDuc; 'David Franz'  
**Subject:** Re: Next steps on the CAS NAS bio workshop?

Hi Ben,

We are totally agree on the six sessions you suggested. As MERS-CoV is the new coming global threat shall we also add MERS as another session?  
How are things going on from your side?

Best,

Ying Wu

Rusek, Benjamin 写:  
Greetings Dr. Wu,

I wanted to let you know that Dr. Franz reached out to Dr. Cheng Cao about the meeting and gave him your contact information. Hopefully he will be in touch soon.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** David Franz [<mailto:davidrf Franz@gmail.com>]  
**Sent:** Wednesday, May 13, 2015 11:37 AM  
**To:** ??  
**Cc:** 孙辉; Lei Zhang; 高福; James W. LeDuc; Rusek, Benjamin  
**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Dr Wu,

It's good to connect with you. Thanks for your note to Ben. I will be helping to organize the content of the meeting from this end and it appears from your note that you believe the topics which we discussed during our visit to Beijing seem reasonable. This is to let you know that we have general agreement among our (US) committee that these will be relevant and useful points for our meeting discussions. I welcome your thoughts if you wish to make new recommendations, additions or deletions to the short sessions list: *Influenza, Ebola, Gain of Function, Safety-Security-Regulation-Progress, Sustainable High-containment labs and Opportunities for further cooperation.* As soon as we can settle on the topics we can select the US experts who will take part in the meeting and send you their particulars.

I would also mention that Dr. LeDuc and I (through our NAS committee) have been working closely re. biosafety/biosecurity issues with the Chinese Biological Scientists Group, chaired by Wang Hanggyang of the Chinese National Biotechnology Center for some years. I mentioned to Dr. Gao Fu that we have discussed the planned meeting with Dr. Cheng Cao of the Beijing Institute of Biotechnology and would like to have Dr. Cao involved. You may know him as well. Thank you for that consideration.

Please feel free to stay in touch with me if you have suggestions, questions or concerns that I might help address from this end.

Best wishes, dave

David R. Franz DVM, Ph.D

Assistant: (b)(6)

(b)(6)

On May 11, 2015, at 6:07 PM, Rusek, Benjamin wrote:

Greetings Dr. Wu,

Thank you for your reply. We are very grateful that the CAS Institute of Microbiology will be able to host the meeting on Sept 29-30, 2015.

Before we invite the speakers it would be helpful to have some of your experts examine the list of proposed agenda topics that I outline below. Their thoughts and comments on the six proposed agenda topics will help us invite the right U.S. and Chinese speakers.  
And thank you for pointing me to the China National Convention Center Grand Hotel, it is close to the InterContinental Hotel where Dr. Franz and I stayed in February. I will need to talk to the members of U.S. group before deciding on the hotel and will get back to you.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** 吴莹 [<mailto:wuying@im.ac.cn>]  
**Sent:** Sunday, May 10, 2015 4:39 AM  
**To:** Rusek, Benjamin  
**Cc:** 孙辉; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉; 高福; [jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)  
**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Ben,

We are happy to host this workshop and the meeting can be held in our Institute of Microbiology, CAS. We could also help to book the hotel. There's one just 5 mins walk to our institute. You can find the info of this hotel through the link below.

<http://www.cnccchina.com/en/Hotel/Default.aspx>

Yes we can fix the dates of this meeting on September 29th-30th, 2015 and September 28th is the day for registration at the hotel.

According to your suggested topics of this meeting we need to determine the invited speakers as soon as possible. Please help us to collect all the US speakers' abstracts of their talks and for each speaker please provide a description in one-paragraph including his/her brief CV and research interest.

For the Chinese side we will determine and invite the Chinese speakers and participants soon.

Please feel free to contact me.

Best,

Ying Wu, Ph.D  
Administrator,  
CAS Key Laboratory of Pathogenic Microbiology  
and Immunology, Institute of Microbiology,  
Chinese Academy of Sciences

Beijing 100101, PR China  
Tel: 86-10-64807688  
Fax: 86-10-64807882

孙辉 写:

Dear Ben,

Thank you for sending us the thought about the joint workshop. The proposed scale of the workshop is smaller than what we discussed last time in Beijing, but I think this should be fine with us. Given the scale of the workshop, I think it not so necessary to have a complicated committee to organize the workshop, maybe 2 people from each side will be fine. I am asking George Gao and his assistant Wu Ying to respond to your questions.

Best Regards,

Sun Hui

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2015年5月7日 星期四

收件人: "'sunhui@cashq.ac.cn'" <sunhui@cashq.ac.cn>, "吴莹"  
<wuying@im.ac.cn>

抄送: "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Zhang Lei" <zhanglei@ibp.ac.cn>, 'blning' <blning@cashq.ac.cn>, "'Jinghua Cao'" <jh-cao@cashq.ac.cn>, "张清泉" <qqzhang@cashq.ac.cn>, "高福" <gaof@im.ac.cn>, "jwleduc@UTMB.EDU" <jwleduc@UTMB.EDU>

主题: Next steps on the CAS NAS bio workshop?

Greetings Hui,

I hope you are well. Thank you for working with me to help our VPs come to agreement about holding a China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security in Beijing later this year. I am a bit unclear on next steps so to try and move the process forward I thought I would get back in touch. The email below includes a few proposals that we think will help move the workshop planning process forward. For your information I have attached the first draft of the invitation letter for U.S. experts that we hope to send out once we get a few of the issues below settled.

**Organizing Committee:** We have discussed putting together an informal organizing committee to guide the project. Dave Franz, James LeDuc, and Diane Griffin can serve on the U.S. side. Dr. Gao Fu (with Dr. Ying Wu) has agreed to lead the Chinese side but it would be helpful to identify a few others. Mifang Liang and Lei Zhang were most helpful during our visit in February and we believe they could make an excellent contribution to the planning and organization of the meeting and it would be useful to involve Chen Cao from the CBSG, but the decision regarding committee members on the Chinese side will of course be yours. The key function of the organizing committee is to decide on the topics that will make up the agenda and then invite experts from each side to speak to the topics so it is important to set the group soon.



U.S.	China
D Franz	Gao Fu (CDC/CAS)
J Leduc	CBSG rep
D Griffin	CAS rep
Others?	Others?

**Possible Session Topics (NAS suggestions) and Speakers:**

**Influenza**

Potential Chinese Speaker: Gao Fu (NAS suggestion)

Potential American Speaker: (TBD)

**Ebola**

Potential American Speaker: Thomas Ksiazek

Potential Chinese Speaker: (TBD)

**Gain of Function Research (also might include discussion on Human Germline Genetic Modification)**

Potential Chinese Speaker: PI from China's National Avian Influenza Reference Laboratory at the Harbin Veterinary Research Institute (NAS suggestion)

Potential American Speaker: (TBD)

Potential Chinese Speaker: (TBD)

Potential American Speaker: (TBD)

**The "Safety-Security-Regulation-Progress" Conundrum:**

Potential American Speaker: David Franz

Potential Chinese Speaker: (TBD)

**High-Containment Labs...Safe, Secure, Productive, Sustainable:**

Potential Chinese Speaker: Director of the Wuhan Institute of Virology (WIV) of the Chinese Academy of Sciences (CAS) (NAS suggestion)

Potential American Speaker: James Leduc

**Areas for Enhanced Cooperation**

Potential American Speaker: Diane Griffin

Potential Chinese Speaker: (TBD)

**Dates:** September 29-30, 2015. We agreed on 28-30 September 2015 time frame to avoid the National Day holiday in early October, could we set the dates for 29-30 to allow U.S. participants to arrive on Monday the 28<sup>th</sup>?

**Venue:** We discussed holding the meeting at either the CAS Institute of Microbiology and Immunology or CAS Institute of Biophysics because they are near the Olympic venue and several hotels. What venue do you prefer? NAS is happy to work with either group.

**Duration:** We thought that a 1.5 or 2 day long meeting would be appropriate depending on the number of experts that agree to speak.

**Participants:** ~20-25 from China and 6-10 experts from U.S. Travel and accommodation for the U.S. experts will be organized and funded by NAS. NAS can also help with the meeting venue costs if necessary.

Happy to work directly with Dr. Ying Wu to answer these questions as well.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn) [mailto:[sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)]  
**Sent:** Thursday, April 09, 2015 8:46 PM  
**To:** Rusek, Benjamin  
**Cc:** Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉; 高福; 吴莹  
**Subject:** Re: RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz  
**Importance:** High

Dear Ben,

I have informed Dr. George(Fu) Gao of the CAS-NAS joint workshop and he agreed to be the Chair for the workshop on the Chinese side. His assistant Dr. Ying Wu will help him organize this workshop. Since we will have our National Day holiday between Oct 1-Oct 5, it seems that Sept 28-30 might be better for the workshop. Drs. Gao and Wu will discuss with you about the specific dates, topics, attendees and other details for the workshop.

Please let us know if I could be of any further assistance.

Best Regards,

Sun Hui

2015-04-10

---

SUN Hui (Mr.)  
Director  
Division of American and Oceanian Affairs  
Bureau of International Cooperation  
Chinese Academy of Sciences  
52 Sanlihe Rd. Beijing, China 100864  
**Tel: +86-10-68597506**  
Fax: +86-10-68511095  
Email: [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)  
<http://english.cas.cn/>

---

发件人 : Rusek, Benjamin  
发送时间 : 2015-04-09 06:25:33  
收件人 : '[sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)'  
抄送 : Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉  
主题 : RE: RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz  
Greetings Hui,

Thank you for this letter. Please send our thanks to Vice President Yaping Zhang.



I apologize for the delay, we just had a coordination meeting at NAS where we discussed the workshop and NAS experts are very excited to move forward. Thank you for letting Dr. George (Fu) Gao know about the letter exchange and the workshop plans and for asking him to help organize the workshop. We are very happy to work with Chinese CDC to plan the workshop as well as the CAS Institute Of Microbiology and/or the CAS Institute of Biophysics to plan/host. I would be grateful if you could designate a contact at either CAS institute so Dr. Franz and could start to discuss the agenda and workshop location. Regarding the workshop dates: Dr. Franz and the other members of the NAS group have let me know that the weeks of **28 Sept 2015 and 5 October 2015** would be a good time for them to travel to Beijing for the workshop. Does this timeframe work for CAS? I think that we would need to allocate about two days during that period for the meeting.

Kind regards,

Ben

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn) [<mailto:sunhui@cashq.ac.cn>]  
**Sent:** Thursday, March 19, 2015 9:52 PM  
**To:** Rusek, Benjamin  
**Cc:** Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉  
**Subject:** Re: RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz  
**Importance:** High

Dear Benjamin Rusek,

I am pleased to send you the letter replied to Dr. Griffin by Dr. Yaping Zhang. I will let Dr. George(Fu) Gao know about this and ask him to help organize the workshop. Please let us know your thoughts about the time and scale of the workshop. Let's stay in touch.

Best Regards,

Sun Hui

2015-03-20

---

SUN Hui (Mr.)  
Director  
Division of American and Oceanian Affairs  
Bureau of International Cooperation  
Chinese Academy of Sciences  
52 Sanlihe Rd. Beijing, China 100864  
**Tel: +86-10-68597506**  
Fax: +86-10-68511095  
Email: [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)  
<http://english.cas.cn/>

---

发件人 : Rusek, Benjamin  
发送时间 : 2015-03-15 22:25:10

收件人 : 'sunhui@cashq.ac.cn'

抄送 : Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'

主题 : RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz

Greetings Mr. Sun,

I have attached the signed letter from Dr. Griffin. Thank you for offering to forward it to VP Zhang.  
We hope to hear back from him soon.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn) [<mailto:sunhui@cashq.ac.cn>]

**Sent:** Tuesday, March 10, 2015 9:02 PM

**To:** Rusek, Benjamin

**Cc:** Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'

**Subject:** Re: RE: RE: RE: Visit next week of Ben Rusek and David Franz

**Importance:** High

Dear Benjamin Rusek,

Thank you for sending me the draft letter addressed to VP Zhang. At your request, I am sending you the updated letter with some minor changes. You may send the final copy of the letter to me by email, and I will help forward it to VP Zhang's office. Let's stay in touch.

Best Regards,

Sun Hui

2015-03-11

---

SUN Hui (Mr.)

Director

Division of American and Oceanian Affairs

Bureau of International Cooperation

Chinese Academy of Sciences

52 Sanlihe Rd. Beijing, China 100864

**Tel:** +86-10-68597506

**Fax:** +86-10-68511095

**Email:** [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)

<http://english.cas.cn/>

---

发件人 : Rusek, Benjamin

发送时间 : 2015-03-11 00:56:12

收件人 : sunhui

抄送 : Dave Franz (davidrf Franz@gmail.com); Zhang Lei; 'blning'; 'Jinghua Cao'

主题 : RE: RE: RE: Visit next week of Ben Rusek and David Franz

Greetings Dr. Hui,

I hope you had a wonderful new year's break. Thank you again for meeting with David Franz and me on February 12. As recommended we have drafted a letter from NAS Vice President Diane E. Griffin to CAS Vice President Academician Zhang Yaping that contains language that we hope will allow the planning for the proposed NAS-CAS workshop to move forward. It is attached for your review. Please feel free to make any necessary changes, and when you are ready, please let us know how Dr. Griffin should send the final signed letter to Academician Zhang.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

**From:** blning [mailto:blning@cassq.ac.cn]

**Sent:** Tuesday, February 10, 2015 9:50 PM

**To:** Rusek, Benjamin; 'Jinghua Cao'

**Cc:** sunhui; Dave Franz (davidrf Franz@gmail.com); Zhang Lei

**Subject:** Re: RE: RE: Visit next week of Ben Rusek and David Franz

Dear Benjamin,

After seeking advice from Jinghua and talking with Ms. Zhang Lei, we would like to change the meeting place tomorrow morning.

Mr. Sun, Director for Office of American & Oceanian Affairs, Ms. Zhang Lei and myself will meet you and your colleague at Meeting Room 706, CAS Headquarters, No. 52 Sanlihe Road, Xicheng District, Beijing 100864 on 9:00 am Thursday. Jinghua will not be able to attend the meeting due to other prior-settled meeting.

Please let me know if you have received this email. Please call me when you arrive at the front door of CAS tomorrow morning on 86-10-68597569 or (b)(6)

Look forward to seeing you tomorrow morning.

Bolun

发件人 : Rusek, Benjamin

发送时间 : 2015-02-10 16:28:31

收件人 : 'blning'; 'Jinghua Cao'

抄送 : sunhui; Dave Franz (davidrf Franz@gmail.com)

主题 : RE: RE: RE: Visit next week of Ben Rusek and David Franz

Greetings Bolun,

Thank you for writing. We will meet with Zhang Lei at the CAS institute of biophysics on Thursday morning at 9:00 am. Could you, Jinghua and/or Mr. Sun join that meeting? Lei can be reached at [zhanglei@ibp.ac.cn](mailto:zhanglei@ibp.ac.cn) or by phone [REDACTED] office +86-10-64888494).

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975  
[REDACTED]

**From:** blning [<mailto:blning@cashq.ac.cn>]  
**Sent:** Tuesday, February 10, 2015 3:21 PM  
**To:** Rusek, Benjamin; 'Jinghua Cao'  
**Cc:** sunhui; David Franz ([franz@sri.org](mailto:franz@sri.org))  
**Subject:** Re: RE: Visit next week of Ben Rusek and David Franz

Dear Benjamin,

I am Bolun Ning from Jinghua's office. Welcome to Beijing and to CAS. Our address is No. 52 Sanlihe Road, Xicheng District, Beijing 100864.

It seems that it's not possible to have meeting today. I don't know whether Jinghua would be available tomorrow. Please let me know which CAS institute you are going to visit in Beijing and who is the contact person. Maybe Jinghua or Mr. Sun and myself can join your visit to the CAS institute.

Best,

Bolun

---

发件人 : Rusek, Benjamin  
发送时间 : 2015-02-10 13:57:56  
收件人 : 'Jinghua Cao'  
抄送 : sunhui; David Franz ([franz@sri.org](mailto:franz@sri.org)); blning ([blning@cashq.ac.cn](mailto:blning@cashq.ac.cn))  
主题 : RE: Visit next week of Ben Rusek and David Franz

Greeting Jinghua,

Thank you for agreeing to meet with us. When is a good time for us to visit you? We are free today or could meet late in the day tomorrow after we return from Chinese CDC. Where are you located?

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975  
[REDACTED]

**From:** Jinghua Cao [<mailto:jh-cao@cashq.ac.cn>]  
**Sent:** Monday, February 09, 2015 8:20 AM

**To:** Boright, John; blning ([blning@cashq.ac.cn](mailto:blning@cashq.ac.cn))  
**Cc:** Rusek, Benjamin; Boright, John; sunhui  
**Subject:** Re: Visit next week of Ben Rusek and David Franz

Boright, John, 您好!

Dear John,

My colleagues and I will be pleased to meet with your Ben and David, I will ask Bolun and Sunhui to bring one or two experts to the meeting. (BL, pls find out who else should be at the meeting and invite them)

Best,

Jinghua

===== 2015-02-08 06:25:41 您在来信中写道: =====

Dear Jinghua, and Bolun,

I hope all is well with you. This message is to let you know that next week Ben Rusek of our office, and US expert David Franz will be visiting Beijing. They have arranged visits with counterpart experts on global health security, including a CAS institute. By this message, I am connecting them with your office, to let you know of their visit, and case it is possible for them to meet with you while they are in Beijing.

Best wishes,

John

---

**From:** Rusek, Benjamin  
**Sent:** Friday, February 06, 2015 5:06 PM  
**To:** Boright, John  
**Subject:** FW: 回复: More information on our visit

Hi John,

Thanks for talking to me today. I have attached the one page project description that David Franz and I will use while we are in Beijing next week (Feb 10-13). A major purpose of the trip is to lay the groundwork for a small joint meeting between Chinese and U.S. experts on emerging infections, laboratory safety and global health security later in calendar year 2015. We have set up meetings with CBSG, Chinese CDC, reps from CAS institutes and some Chinese think tank experts. I have included bios for Dave and myself below if you would like to forward this to your CAS contact.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
Phone: 001-202-334-3975  
Cell: (b)(6)  
Fax: 001-202-334-1730  
Skype: (b)(6)

**David Franz (Independent Consultant, United States)**

David R. Franz served in the U.S. Army Medical Research and Materiel Command for 23 of 27 years on active duty and retired as Colonel. He served as Commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) and as Deputy Commander of the Medical Research and Materiel Command. Prior to joining the Command, he served as Group Veterinarian for the 10th Special Forces Group (Airborne). Dr. Franz was the Chief Inspector on three United Nations Special Commission biological warfare inspection missions to Iraq and served as technical advisor on long-term monitoring. He also served as a member of the first two US-UK teams that visited Russia in support of the Trilateral Joint Statement on Biological Weapons and as a member of the Trilateral Experts' Committee for biological weapons negotiations. Dr. Franz was Technical Editor for the Textbook of Military Medicine on Medical Aspects of Chemical and Biological Warfare released in 1997. Current standing committee appointments include the National Academy of Sciences Committee on International Security and Arms Control where he chairs the 'biological panel', the National Research Council Board on Life Sciences and the Senior Technical Advisory Committee of the National Biodefense Countermeasures Analysis Center (DHS). He serves as a Senior Mentor to the Program for Emerging Leaders at the National Defense University. He also serves on the Boards of the Elizabeth R. Griffin Research Foundation and Integrated Nano-Technologies, LLC. He holds an adjunct appointment as Professor for the Department of Diagnostic Medicine and Pathobiology at the College of Veterinary Medicine, Kansas State University. The current focus of his activities relates to the role of international engagement in public health and the life sciences as a component of global biosecurity policy. Domestically he continues to encourage thoughtfulness when regulating research in the name of security, thereby minimizing negative impact on progress in the life sciences.. Dr. Franz holds a D.V.M. from Kansas State University and a Ph.D. in Physiology from Baylor College of Medicine.

**Benjamin Rusek (National Academy of Sciences, United States)**

Benjamin Rusek is a Senior Program Officer in the Policy and Global Affairs Division at the National Academy of Sciences. Ben has supported successful NAS work in China for almost ten years (including the Chinese-English English-Chinese glossary of nuclear security terms and the U.S. Chinese workshops on nuclear forensics). Ben was the study director for the project that produced the NAS report *Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories* and has worked on international biosecurity issues with the NAS Board on Life Sciences since 2005. He has been a member of the Executive Board of International Student/Young Pugwash since 2005 and Chair of ISYP since 2008. He previously held various positions at the Henry L. Stimson Center, the Arms Control Association, and the U.S. National Air and Space Museum. Ben has a B.A. in political science from Ohio State University and an M.A. in political science from Purdue University where he was the president of Purdue University Student Pugwash.

= = = = =

致

礼！

Jinghua Cao  
[jh-cao@cashq.ac.cn](mailto:jh-cao@cashq.ac.cn)  
2015-02-09

---

**From:** Mifang Liang (b)(6)  
**Sent:** Friday, July 31, 2015 10:05 AM  
**To:** LeDuc, James W.  
**Subject:** RE: Next steps on the CAS NAS bio workshop?

Dear Jim,

About the meeting with CAS, I have contacted CAS people, for Chinese side, we will make new list, I may give a talk about risk assessment. Once finished, I will let you know. Below is the list I suggested to them

Zhijun Wang	Safety, Security, Regulation and Progress
Zhiming Yuan	High Containment Labs
Mifang Liang	laboratory risk assessment for responding to emerging infectious disease
Yuelong Shu	Influenza ( H5N1, H7N9, H8N10 and so on )
Zhijian Feng	Actions against EBOLA (Chinese team in west africa )
Wuchun Cao, Di Liu	Ebola Genetic analysis
Zhenli Shi	MERS ?? f
George F Gao	CAS , CDC and Areas for Enhanced Cooperation

I will let you know when they decided.

2. How about your schedule after meeting or before meeting, to visit Kun MIng, thier director is my friend ( From Chinese Academy of Medical Science ) . I can go with you if you want to. Please just let me know.

Best wishes,

Mifang

---

From: (b)(6)  
Subject: Re: Next steps on the CAS NAS bio workshop?  
Date: Fri, 31 Jul 2015 11:28:03 +0800  
To: [jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)  
Jim, I will be the meeting and talk with them about the final

发自我的 iPhone

在 2015年7月8日, 下午11:26, LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)> 写道 :

For your information.

**From:** 施一 [<mailto:shiyi@im.ac.cn>]

**Sent:** Friday, July 03, 2015 1:35 AM

**To:** Lowenthal, Micah

**Cc:** 吴莹; [masf@im.ac.cn](mailto:masf@im.ac.cn); [baiyu@im.ac.cn](mailto:baiyu@im.ac.cn); [#160@im.ac.cn](mailto:#160@im.ac.cn); 孙辉; Lei Zhang; 高福; LeDuc, James W.; 'David Franz'

**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Micah,

I am Yi Shi, you can call me Sam. Nice to meet you.

For September 29-30 meeting, George have suggested a list of Chinese experts.

Qiang Wei	Safety, Security, Regulation and Progress
Zhiming Yuan	High Containment Labs
Jinhua Liu, Yi Shi	Influenza
Cheng Cao	Gain of Function
Wuchun Cao, Di Liu	Ebola
Wenjie Tan, Deyin Guo	MERS
George F Gao	Areas for Enhanced Cooperation

Later we'll collect their CVs and talk topics.

Best Wishes.



---

Sam  
Ph.D  
CAS Key Laboratory of Pathogenic Microbiology and Immunology(CASPMI)  
Institute of Microbiology, Chinese Academy of Sciences (IMCAS)  
1#, BeiChenXi Road, Chaoyang District  
Beijing  
P.R.China  
Zip Code:100101  
Tel: 86-10-64807569(o)  
Fax: 86-10-64807598

Lowenthal, Micah 写:

Dear Ying,

On behalf of my colleagues here, Congratulations! We will gladly work with Dr. Shi and Dr. Ma. We wish you and your family good fortune and great happiness.

Micah

Dear Dr. Shi and Dr. Ma,

It is nice to make your acquaintance by e-mail. The long string of correspondence about this meeting is below. You will see the history of the discussions, including in the May 13 e-mail from Dr. Franz a description of discussions with the Chinese Biological Scientists Group and Dr. Cheng Cao of the Beijing Institute of Biotechnology, and later exchanges concerning the agenda. Attached please find brief biographical sketches of the planned U.S. participants in the September 29-30 meeting.

Also, I have attached a letter from the President of the National Academy of Sciences (NAS), the President of the National Academy of Medicine (NAM), and the Vice President of the NAS to the President of the Chinese Academy of Sciences. The NAS and NAM are conducting a study and a workshop on genome editing technologies and their implications. The letter suggests that we could make good use of the opportunity of having a set of life-science experts from the NAS in Beijing to have a discussion of genome editing issues on September 28. We wanted to you to know about this correspondence and we would be glad to discuss the possible meeting.

Thank you for your attention to these matters. We look forward to working with you.

Micah Lowenthal

---

**From:** 吴莹 [[wuying@im.ac.cn](mailto:wuying@im.ac.cn)]  
**Sent:** Sunday, June 28, 2015 2:31 AM  
**To:** Lowenthal, Micah; [shiyi@im.ac.cn](mailto:shiyi@im.ac.cn); [masf@im.ac.cn](mailto:masf@im.ac.cn); [baiyu@im.ac.cn](mailto:baiyu@im.ac.cn)

**Cc:** &#160@im.ac.cn; 孙辉; Lei Zhang; 高福; James W. LeDuc; 'David Franz'

**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Micah,

Sorry to say that I will have to take (b)(6) from the beginning of July and could not get access to network timely. We are contacting the potential Chinese speakers these days and will be fixed soon. My colleagues Dr. Yi Shi (shiyi@im.ac.cn), Dr. Sufang Ma (masf@im.ac.cn) and Ms Yu Bai (baiyu@im.ac.cn) will follow up this issue in my absence. I also copied this email to them. Hope everything goes smoothly.

Best,

Ying

Lowenthal, Micah 写:

Dear Dr. Wu,

At the end of his e-mail to you, Ben Rusek mentioned that he will be on a sabbatical until 17 August; I will serve as the NAS staff contact for this activity over the next two months, until Ben returns. Please feel free to contact me with any questions, concerns, or requests. We can begin by providing you with brief biographical sketches of the participants listed below, if that would be useful to you.

With best regards,

Micah

---

Micah D. Lowenthal, Ph.D.

Program Director, Policy and Global Affairs Division

The National Academy of Sciences

500 Fifth Street, NW 5th floor

Washington, DC 20001 USA

telephone: +1 (202) 334-3074

fax: +1 (202) 334-1730

e-mail: [milowenthal@nas.edu](mailto:milowenthal@nas.edu)

---

**From:** Rusek, Benjamin  
**Sent:** Tuesday, June 16, 2015 5:48 PM  
**To:** '??'  
**Cc:** 孙辉; Lei Zhang; 高福; James W. LeDuc; 'David Franz'; Lowenthal, Micah  
**Subject:** RE: Next steps on the CAS NAS bio workshop?  
**Importance:** High

Greetings Dr. Wu,

Sorry for the delayed response. The group we have assembled to attend the workshop on September 29-30 at the CAS Institute of Microbiology is below along with a draft of their talk topic.

David Franz	Safety, Security, Regulation and Progress: "Finding the Balance: The US Experience"
James LeDuc	High Containment Labs: "Putting the pieces of laboratory safety and global health security together"
Peter Palese	Influenza: "Paths to a Better Vaccine?"
Ruth Berkelman	Gain of Function: "NAS Gain of Function Meeting Report (The scientists' view)"
Thomas Ksiazek	Ebola: "Sustainable Austere Environment Laboratories"
Ralph Baric	MERS: "Genetic Systems and Models"
Diane Griffin	Areas for Enhanced Cooperation: "Possible roles for CAS and NAS in these areas"

The MERS-CoV suggestion is a good one and we have invited an expert to discuss the topic (and added a seventh session as you suggest). We will send you the experts biographical information as soon as we can. Have you started to reach out to Chinese experts who could speak during the sessions?

Re logistics we are in the process of making travel arrangements and will need to work with CAS to arrange for visa invitation letters in the coming weeks.

I want to let you know that I will be out of the office on a sabbatical from Thursday, June 18 until Monday, August 17. Micah Lowenthal (cced) my NAS colleague in the Policy and Global Affairs Division will be working on the project in my absence. David Franz with James LeDuc (both also cced) are still leading the planning committee on the NAS side and will likely be in contact with you.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

**From:** 吴莹 [<mailto:wuying@im.ac.cn>]

**Sent:** Wednesday, June 10, 2015 1:40 AM

**To:** Rusek, Benjamin

**Cc:** 孙辉; Lei Zhang; 高福; James W. LeDuc; 'David Franz'

**Subject:** Re: Next steps on the CAS NAS bio workshop?

Hi Ben,

We are totally agree on the six sessions you suggested. As MERS-CoV is the new coming global threat shall we also add MERS as another session?

How are things going on from your side?

Best,

Ying Wu

Rusek, Benjamin 写:

Greetings Dr. Wu,

I wanted to let you know that Dr. Franz reached out to Dr. Cheng Cao about the meeting and gave him your contact information. Hopefully he will be in touch soon.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

**From:** David Franz [mailto:davidrf Franz@gmail.com]  
**Sent:** Wednesday, May 13, 2015 11:37 AM  
**To:** ??  
**Cc:** 孙辉; Lei Zhang; 高福; James W. LeDuc; Rusek, Benjamin  
**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Dr Wu,

It's good to connect with you. Thanks for your note to Ben. I will be helping to organize the content of the meeting from this end and it appears from your note that you believe the topics which we discussed during our visit to Beijing seem reasonable. This is to let you know that we have general agreement among our (US) committee that these will be relevant and useful points for our meeting discussions. I welcome your thoughts if you wish to make new recommendations, additions or deletions to the short sessions list: *Influenza, Ebola, Gain of Function, Safety-Security-Regulation-Progress, Sustainable High-containment labs and Opportunities for further cooperation*. As soon as we can settle on the topics we can select the US experts who will take part in the meeting and send you their particulars.

I would also mention that Dr. LeDuc and I (through our NAS committee) have been working closely re. biosafety/biosecurity issues with the Chinese Biological Scientists Group, chaired by Wang Hanggyang of the Chinese National Biotechnology Center for some years. I mentioned to Dr. Gao Fu that we have discussed the planned meeting with Dr. Cheng Cao of the Beijing Institute of Biotechnology and would like to have Dr. Cao involved. You may know him as well. Thank you for that consideration.

Please feel free to stay in touch with me if you have suggestions, questions or concerns that I might help address from this end.

Best wishes, dave

David R. Franz DVM, Ph.D

Assistant: (b)(6)

(b)(6)

On May 11, 2015, at 6:07 PM, Rusek, Benjamin wrote:

Greetings Dr. Wu,

Thank you for your reply. We are very grateful that the CAS Institute of Microbiology will be able to host the meeting on Sept 29-30, 2015.

Before we invite the speakers it would be helpful to have some of your experts examine the list of proposed agenda topics that I outline below. Their thoughts and comments on the six proposed agenda topics will help us invite the right U.S. and Chinese speakers.

And thank you for pointing me to the China National Convention Center Grand Hotel, it is close to the InterContinental Hotel where Dr. Franz and I stayed in February. I will need to talk to the members of U.S. group before deciding on the hotel and will get back to you.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

**From:** 吴莹 [<mailto:wuying@im.ac.cn>]

**Sent:** Sunday, May 10, 2015 4:39 AM

**To:** Rusek, Benjamin

**Cc:** 孙辉; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉; 高福; [jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)

**Subject:** Re: Next steps on the CAS NAS bio workshop?

Dear Ben,

We are happy to host this workshop and the meeting can be held in our Institute of Microbiology, CAS. We could also help to book the hotel. There's one just 5 mins walk to our institute. You can find the info of this hotel through the link below.

<http://www.cnccchina.com/en/Hotel/Default.aspx>

Yes we can fix the dates of this meeting on September 29th-30th, 2015 and September 28th is the day for registration at the hotel.

According to your suggested topics of this meeting we need to determine the invited speakers as soon as possible. Please help us to collect all the US speakers' abstracts of their talks and for each speaker please provide a description in one-paragraph including his/her brief CV and research interest.

For the Chinese side we will determine and invite the Chinese speakers and participants soon.

Please feel free to contact me.

Best,

Ying Wu, Ph.D

Administrator,  
CAS Key Laboratory of Pathogenic Microbiology  
and Immunology, Institute of Microbiology,  
Chinese Academy of Sciences  
Beijing 100101, PR China  
Tel: 86-10-64807688  
Fax: 86-10-64807882

孙辉 写:

Dear Ben,  
Thank you for sending us the thought about the joint workshop. The proposed scale of the workshop is smaller than what we discussed last time in Beijing, but I think this should be fine with us. Given the scale of the workshop, I think it not so necessary to have a complicated committee to organize the workshop, maybe 2 people from each side will be fine. I am asking George Gao and his assistant Wu Ying to respond to your questions.  
Best Regards,  
Sun Hui

-----原始邮件-----

发件人: "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

发送时间: 2015年5月7日 星期四

收件人: "sunhui@cashq.ac.cn" <sunhui@cashq.ac.cn>, "吴莹" <wuying@im.ac.cn>  
抄送: "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Zhang Lei" <zhanglei@ibp.ac.cn>, 'blning' <blning@cashq.ac.cn>, "Jinghua Cao" <jh-cao@cashq.ac.cn>, "张清泉" <qqzhang@cashq.ac.cn>, "高福" <gaof@im.ac.cn>, "jwleduc@UTMB.EDU" <jwleduc@UTMB.EDU>  
主题: Next steps on the CAS NAS bio workshop?

Greetings Hui,

I hope you are well. Thank you for working with me to help our VPs come to agreement about holding a China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security in Beijing later this year. I am a bit unclear on next steps so to try and move the process forward I thought I would get back in touch. The email below includes a few proposals that we think will help move the workshop planning process forward. For your information I have attached the first draft of the invitation letter for U.S. experts that we hope to send out once we get a few of the issues below settled.

**Organizing Committee:** We have discussed putting together an informal organizing committee to guild the project. Dave Franz, James LeDuc, and Diane Griffin can serve on the U.S. side. Dr. Gao Fu (with Dr. Ying Wu) has agreed to lead the Chinese side but it would be helpful to identify a few others. Mifang Liang and Lei Zhang were most helpful during our visit in February and we believe they could make an excellent contribution to the planning and organization of the meeting and it would be useful to involve Chen Cao from the CBSG, but the decision regarding committee members on the Chinese side will of course be yours. The key function of the organizing committee is to decide on the topics that will make up the agenda and then invite experts from each side to speak to the topics so it is important to set the group soon.

U.S.	China
D Franz	Gao Fu (CDC/CAS)
J Leduc	CBSG rep
D Griffin	CAS rep
Others?	Others?

**Possible Session Topics (NAS suggestions) and Speakers:**

**Influenza**

Potential Chinese Speaker: Gao Fu (NAS suggestion)

Potential American Speaker: (TBD)

**Ebola**

Potential American Speaker: Thomas Ksiazek



Potential Chinese Speaker: (TBD)

**Gain of Function Research (also might include discussion on Human Germline Genetic Modification)**

Potential Chinese Speaker: PI from China's National Avian Influenza Reference Laboratory at the Harbin Veterinary Research Institute (NAS suggestion)

Potential American Speaker: (TBD)

Potential Chinese Speaker: (TBD)

Potential American Speaker: (TBD)

**The “Safety-Security-Regulation-Progress” Conundrum:**

Potential American Speaker: David Franz

Potential Chinese Speaker: (TBD)

**High-Containment Labs...Safe, Secure, Productive, Sustainable:**

Potential Chinese Speaker: Director of the Wuhan Institute of Virology (WIV) of the Chinese Academy of Sciences (CAS) (NAS suggestion)

Potential American Speaker: James Leduc

**Areas for Enhanced Cooperation**

Potential American Speaker: Diane Griffin

Potential Chinese Speaker: (TBD)

**Dates:** September 29-30, 2015. We agreed on 28-30 September 2015 time frame to avoid the National Day holiday in early October, could we set the dates for 29-30 to allow U.S. participants to arrive on Monday the 28<sup>th</sup>?

**Venue:** We discussed holding the meeting at either the CAS Institute of Microbiology and Immunology or CAS Institute of Biophysics because they are near the Olympic venue and several hotels. What venue do you prefer? NAS is happy to work with either group.

**Duration:** We thought that a 1.5 or 2 day long meeting would be appropriate depending on the number of experts that agree to speak.

**Participants:** ~20-25 from China and 6-10 experts from U.S. Travel and accommodation for the U.S. experts will be organized and funded by NAS. NAS can also help with the meeting venue costs if necessary.

Happy to work directly with Dr. Ying Wu to answer these questions as well.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

**From:** [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn) [mailto:[sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)]

**Sent:** Thursday, April 09, 2015 8:46 PM

**To:** Rusek, Benjamin

**Cc:** Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉; 高福; 吴莹

**Subject:** Re: RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz

**Importance:** High

Dear Ben,

I have informed Dr. George(Fu) Gao of the CAS-NAS joint workshop and he agreed to be the Chair for the workshop on the Chinese side. His assistant Dr. Ying Wu will help him organize this workshop. Since we will have our National Day holiday between Oct 1-Oct 5, it seems that Sept 28-30 might be better for the workshop. Drs. Gao and Wu will discuss with you about the specific dates, topics, attendees and other details for the workshop.

Please let us know if I could be of any further assistance.

Best Regards,

Sun Hui

2015-04-10

---

SUN Hui (Mr.)

Director

Division of American and Oceanian Affairs

Bureau of International Cooperation

Chinese Academy of Sciences

52 Sanlihe Rd. Beijing, China 100864

Tel: +86-10-68597506

Fax: +86-10-68511095

Email: [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)

<http://english.cas.cn/>

---

发件人 : Rusek, Benjamin

发送时间 : 2015-04-09 06:25:33

收件人 : '[sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)'

抄送 : Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉

主题 : RE: RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz

Greetings Hui,

Thank you for this letter. Please send our thanks to Vice President Yaping Zhang.

I apologize for the delay, we just had a coordination meeting at NAS where we discussed the workshop and NAS experts are very excited to move forward. Thank you for letting Dr. George (Fu) Gao know about the letter exchange and the workshop plans and for asking him to help organize the workshop. We are very happy to work with Chinese CDC to plan the workshop as well as the CAS Institute Of Microbiology and/or the CAS Institute of Biophysics to plan/host. I would be grateful if you could designate a contact at either CAS institute so Dr. Franz and could start to discuss the agenda and workshop location. Regarding the workshop dates: Dr. Franz and the other members of the NAS group have let me know that the weeks of **28 Sept 2015 and 5 October 2015** would be a good time for them to travel to Beijing for the workshop. Does this timeframe work for CAS? I think that we would need to allocate about two days during that period for the meeting.

Kind regards,

Ben

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

**From:** [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn) [<mailto:sunhui@cashq.ac.cn>]

**Sent:** Thursday, March 19, 2015 9:52 PM

**To:** Rusek, Benjamin

**Cc:** Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'; 张清泉

**Subject:** Re: RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz

**Importance:** High

Dear Benjamin Rusek,

I am pleased to send you the letter replied to Dr. Griffin by Dr. Yaping Zhang. I will let Dr. George(Fu) Gao know about this and ask him to help organize the workshop. Please let us know your thoughts about the time and scale of the workshop. Let's stay in touch.

Best Regards,

Sun Hui

2015-03-20

---

SUN Hui (Mr.)

Director

Division of American and Oceanian Affairs

Bureau of International Cooperation

Chinese Academy of Sciences

52 Sanlihe Rd. Beijing, China 100864

Tel: +86-10-68597506

Fax: +86-10-68511095

Email: [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)

<http://english.cas.cn/>

---

发件人 : Rusek, Benjamin

发送时间 : 2015-03-15 22:25:10

收件人 : '[sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)'

抄送 : Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'

主题 : RE: RE: RE: RE: Visit next week of Ben Rusek and David Franz

Greetings Mr. Sun,

I have attached the signed letter from Dr. Griffin. Thank you for offering to forward it to VP Zhang. We hope to hear back from him soon.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

**From:** [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn) [<mailto:sunhui@cashq.ac.cn>]

**Sent:** Tuesday, March 10, 2015 9:02 PM

**To:** Rusek, Benjamin

**Cc:** Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'

**Subject:** Re: RE: RE: RE: Visit next week of Ben Rusek and David Franz

**Importance:** High

Dear Benjamin Rusek,

Thank you for sending me the draft letter addressed to VP Zhang. At your request, I am sending you the updated letter with some minor changes. You may send the final copy of the letter to me by email, and I will help forward it to VP Zhang's office. Let's stay in touch.

Best Regards,

Sun Hui

2015-03-11

---

SUN Hui (Mr.)

Director

Division of American and Oceanian Affairs

Bureau of International Cooperation

Chinese Academy of Sciences

52 Sanlihe Rd. Beijing, China 100864

**Tel:+86-10-68597506**

Fax: +86-10-68511095

Email: [sunhui@cashq.ac.cn](mailto:sunhui@cashq.ac.cn)

<http://english.cas.cn/>

---

发件人 : Rusek, Benjamin

发送时间 : 2015-03-11 00:56:12

收件人 : sunhui

抄送 : Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei; 'blning'; 'Jinghua Cao'

主题 : RE: RE: RE: Visit next week of Ben Rusek and David Franz

Greetings Dr. Hui,

I hope you had a wonderful new year's break. Thank you again for meeting with David Franz and me on February 12. As recommended we have drafted a letter from NAS Vice President Diane E. Griffin to CAS Vice President Academician Zhang Yaping that contains language that we hope will allow the planning for the proposed NAS-CAS workshop to move forward. It is attached for your review. Please feel free to make any necessary changes, and when you are ready, please let us know how Dr. Griffin should send the final signed letter to Academician Zhang.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

**From:** blning [<mailto:blning@cashq.ac.cn>]

**Sent:** Tuesday, February 10, 2015 9:50 PM

**To:** Rusek, Benjamin; 'Jinghua Cao'

**Cc:** sunhui; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Zhang Lei

**Subject:** Re: RE: RE: Visit next week of Ben Rusek and David Franz

Dear Benjamin,

After seeking advice from Jinghua and talking with Ms. Zhang Lei, we would like to change the meeting place tomorrow morning.

Mr. Sun, Director for Office of American & Oceanian Affairs, Ms. Zhang Lei and myself will meet you and your colleague at Meeting Room 706, CAS Headquarters, No. 52 Sanlihe Road, Xicheng District, Beijing 100864 on 9:00 am Thursday. Jinghua will not be able to attend the meeting due to other prior-settled meeting.

Please let me know if you have received this email. Please call me when you arrive at the front door of CAS tomorrow morning on 86-10-68597569 or (b)(6)

Look forward to seeing you tomorrow morning.

Bolun

发件人 : Rusek, Benjamin

发送时间 : 2015-02-10 16:28:31

收件人 : 'blning'; 'Jinghua Cao'

抄送 : sunhui; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))

主题 : RE: RE: Visit next week of Ben Rusek and David Franz

Greetings Bolun,

Thank you for writing. We will met with Zhang Lei at the CAS institute of biophysics on Thursday morning at 9:00 am. Could you, Jinghua and/or Mr Sun join that meeting? Lei can be reached at [zhanglei@ibp.ac.cn](mailto:zhanglei@ibp.ac.cn) or by phone [REDACTED] office +86-10-64888494).

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

(b)(6) cell

**From:** blning [<mailto:blning@cashq.ac.cn>]

**Sent:** Tuesday, February 10, 2015 3:21 PM

**To:** Rusek, Benjamin; 'Jinghua Cao'

**Cc:** sunhui; David Franz ([franz@sri.org](mailto:franz@sri.org))

**Subject:** Re: RE: Visit next week of Ben Rusek and David Franz

Dear Benjamin,



I am Bolun Ning from Jinghua's office. Welcome to Beijing and to CAS. Our address is No. 52 Sanlihe Road, Xicheng District, Beijing 100864.

It seems that it's not possible to have meeting today. I don't know whether Jinghua would be available tomorrow. Please let me know which CAS institute you are going to visit in Beijing and who is the contact person. Maybe Jinghua or Mr. Sun and myself can join your visit to the CAS institute.

Best,

Bolun

发件人 : Rusek, Benjamin

发送时间 : 2015-02-10 13:57:56

收件人 : 'Jinghua Cao'

抄送 : sunhui; David Franz ([franz@sri.org](mailto:franz@sri.org)); blning ([blning@cashq.ac.cn](mailto:blning@cashq.ac.cn))

主题 : RE: Visit next week of Ben Rusek and David Franz

Greeting Jinghua,

Thank you for agreeing to meet with us. When is a good time for us to visit you? We are free today or could meet late in the day tomorrow after we return from Chinese CDC. Where are you located?

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

1-202-334-3975

(b)(6) cell

**From:** Jinghua Cao [<mailto:jh-cao@cashq.ac.cn>]  
**Sent:** Monday, February 09, 2015 8:20 AM  
**To:** Boright, John; blning ([blning@cashq.ac.cn](mailto:blning@cashq.ac.cn))  
**Cc:** Rusek, Benjamin; Boright, John; sunhui  
**Subject:** Re: Visit next week of Ben Rusek and David Franz

Boright, John, 您好 !

Dear John,

My colleagues and I will be pleased to meet with your Ben and David, I will ask Bolun and Sunhui to bring one or two experts to the meeting.

(BL, pls find out who else should be at the meeting and invite them)

Best,

Jinghua

===== 2015-02-08 06:25:41 您在来信中写道 : =====

Dear Jinghua, and Bolun,

I hope all is well with you. This message is to let you know that next week Ben Rusek of our office, and US expert David Franz will be visiting Beijing. They have arranged visits with counterpart experts on global health security, including a CAS institute. By this message, I am connecting them with your office, to let you know of their visit, and in case it is possible for them to meet with you while they are in Beijing.

Best wishes,

John

**From:** Rusek, Benjamin  
**Sent:** Friday, February 06, 2015 5:06 PM  
**To:** Boright, John  
**Subject:** FW: 回复 : More information on our visit

Hi John,

Thanks for talking to me today. I have attached the one page project description that David Franz and I will use while we are in Beijing next week (Feb 10-13). A major purpose of the trip is to lay the groundwork for a small joint meeting between Chinese and U.S. experts on emerging infections, laboratory safety and global health security later in calendar year 2015. We have set up meetings with CBSG, Chinese CDC, reps from CAS institutes and some Chinese think tank experts. I have included bios for Dave and myself below if you would like to fw this to your CAS contact.

Kind regards,

Benjamin J. Rusek

U.S. National Academy of Sciences

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

#### **David Franz (Independent Consultant, United States)**

David R. Franz served in the U.S. Army Medical Research and Materiel Command for 23 of 27 years on active duty and retired as Colonel. He served as Commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) and as Deputy Commander of the Medical Research and Materiel Command. Prior to joining the Command, he served as Group Veterinarian for the 10th Special Forces Group (Airborne). Dr. Franz was the Chief Inspector on three United Nations Special Commission biological warfare inspection missions to Iraq and served as technical advisor on long-term monitoring. He also served as a member of the first two US-UK teams that visited Russia in support of the Trilateral Joint Statement on Biological Weapons and as a member of the Trilateral Experts' Committee for biological weapons negotiations. Dr. Franz was Technical Editor for the Textbook of Military Medicine on Medical Aspects of Chemical and Biological Warfare released in 1997. Current standing committee appointments include the National Academy of Sciences Committee on International Security and Arms Control where he chairs the 'biological panel', the National Research Council Board on Life Sciences and the Senior Technical Advisory Committee of the National Biodefense Countermeasures Analysis Center (DHS). He serves as a Senior Mentor to the Program for Emerging Leaders at the National Defense University. He also serves on the Boards of the Elizabeth R. Griffin Research Foundation and Integrated Nano-Technologies, LLC. He holds an adjunct appointment as Professor for the Department of Diagnostic Medicine and Pathobiology at the College of Veterinary Medicine, Kansas State University. The current focus of his activities relates to the role of international engagement in public health and the life sciences as a component of global biosecurity policy. Domestically he continues to encourage thoughtfulness when regulating research in the name of security, thereby minimizing negative impact on progress in

the life sciences.. Dr. Franz holds a D.V.M. from Kansas State University and a Ph.D. in Physiology from Baylor College of Medicine.

**Benjamin Rusek (National Academy of Sciences, United States)**

Benjamin Rusek is a Senior Program Officer in the Policy and Global Affairs Division at the U.S. National Academy of Sciences. Ben has supported successful NAS work in China for almost ten years (including the Chinese-English English-Chinese glossary of nuclear security terms and the U.S.-Chinese workshops on nuclear forensics). Ben was the study director for the project that produced the NAS report *Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories* and has worked on international biosecurity issues with the NAS Board on Life Sciences since 2005. He has been a member of the Executive Board of International Student/Young Pugwash since 2005 and Chair of ISYP since 2008. He previously held various positions at the Henry L. Stimson Center, the Arms Control Association, and the U.S. National Air and Space Museum. Ben has a B.A. in political science from Ohio State University and an M.A. in political science from Purdue University, where he was the president of Purdue University Student Pugwash.


=====  
致  
礼！

Jinghua Cao



[jh-cao@cashq.ac.cn](mailto:jh-cao@cashq.ac.cn)

2015-02-09

---

**From:** Ramos, Analaura [/O=UTMB/OU=EMAIL/CN=RECIPIENTS/CN=ANRAMOS]  
**Sent:** 8/25/2015 10:45:55 AM  
**To:** LeDuc, James W. [jwleduc@UTMB.EDU]; Bente, Dennis A. [dabente@UTMB.EDU]  
**CC:** Mendoza, Imelda [imendoza@UTMB.EDU]; Grimaldo, Miguel A. [magrimal@UTMB.EDU]  
**Subject:** RE: Re: Chinese Scholarship to Visit UTMB  
**Attachments:** Zheng, Dasheng  Sponsor letter 8.25.15.doc

Good morning,

Can someone help me finalize the attached  sponsor letter for Dasheng Zheng please. I am only missing his credential equivalency statement for his  visa packet to be complete. He will send that to me by next week possibly.

Thank you

**Ana Laura Ramos**  
Sr. Administrative Manager  
Microbiology & Immunology  
301 University Blvd. Galveston, TX 77555-1019  
P 409.772-2724  
F 409.772-2366 E [anramos@utmb.edu](mailto:anramos@utmb.edu)



Working together to work wonders.<sup>®</sup>

---

**From:** LeDuc, James W.  
**Sent:** Tuesday, July 14, 2015 11:39 AM  
**To:** Ramos, Analaura; Bente, Dennis A.  
**Cc:** Mendoza, Imelda; Grimaldo, Miguel A.  
**Subject:** RE: Re: Chinese Scholarship to Visit UTMB

Yes, it looks like he will be coming for three months. We have gone back and forth on the proposed starting date, so if you can include a range of dates, for example "3 months during calendar year 2016" that might save us some problems down the road. No big deal if you cannot, but I thought I would ask.

In addition to work with Dr Bente, he will be working most closely with Miguel Grimaldo.

Please let me know if you need anything from me.

Thanks for your help,

Jim

---

**From:** Ramos, Analaura  
**Sent:** Tuesday, July 14, 2015 10:38 AM  
**To:** LeDuc, James W.; Bente, Dennis A.  
**Cc:** Mendoza, Imelda  
**Subject:** FW: Re: Chinese Scholarship to Visit UTMB  
**Importance:** High

Good morning Dr. LeDuc,

From the string of emails below, I gather I will need to hire Dr. Dasheng Zheng as an International visiting scientist for 3 months. I will reach out to him for the list of documents he needs to provide me for his J1 visa packet including a credential evaluation of his highest degree earned.

Thank you  
**Ana Laura Ramos**  
Sr. Administrative Manager  
Microbiology & Immunology  
301 University Blvd., Galveston, TX 77556-1019  
P 409.772-2724  
F 409.772-2366 E [anramos@utmb.edu](mailto:anramos@utmb.edu)



Working together to work wonders.®

---

**From:** Mendoza, Imelda  
**Sent:** Wednesday, July 08, 2015 12:24 PM  
**To:** Ramos, Analaura  
**Cc:** Xia, Han  
**Subject:** FW: Re: Chinese Scholarship to Visit UTMB  
**Importance:** High

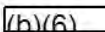
Hi Ana,

Please see email below from Dr Xia. Can you assist us with getting the form completed for Dr. Dasheng Zheng. He is visiting February 2016 and is currently working on getting his paperwork in order. Please let us know if you need anything else from us.

Thank you,  
Imelda

---

Hi Imelda,

That form  is used for ☐ visa application. When I came UTMB, Ms. Analaura Ramos helped me to get that form. I don't know the detail, I just gave the information which Ms. Ramos needed. Could you ask her help?


Thanks,

Han

---

**From:** Mendoza, Imelda  
**Sent:** Wednesday, July 08, 2015 9:15 AM  
**To:** Xia, Han  
**Cc:** Bente, Dennis A.  
**Subject:** FW: Re:RE: Re:Re: Chinese Scholarship to Visit UTMB

Good morning Dr Xia,

Can you assist me with this request from Dasheng? I am not familiar with the  form that he mentioned in his email. Please let me know if there is anything you need from me.

Thank you,  
Imelda

**From:** (b)(6) (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Wednesday, July 08, 2015 3:00 AM  
**To:** Mendoza, Imelda  
**Cc:** Xia, Han  
**Subject:** Re:RE: Re:Re: Chinese Scholarship to Visit UTMB

Hello Imelda,

Thank you for sending the invitation letter that reached me yesterday. May I ask if you could send (b)(6)  
(b)(6)

Please donot be hesitate to ask me if any questions. Your cooperation is appreciated very much.

Best Regards,

Dasheng

在 2015-06-16 21:11:06, "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)> 写道:

You are welcome, Dasheng. Hope all goes well.

Best Regards,

Imelda

**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Monday, June 15, 2015 9:25 PM  
**To:** Mendoza, Imelda  
**Subject:** Re:Re: Chinese Scholarship to Visit UTMB

Dear Ms. Mendoza,

Thank you for sending the revised letter. I shall run the CAS procedures and keep in touch.

Best Regards,

Dasheng

—  
Zheng, Dasheng PhD  
=====



Wuhan National Biosafety Laboratory  
Chinese Academy of Sciences  
Wuhan 430071, P.R.China.  
Tel: 86-27-5186 1004

Mobile: (b)(6)

=====

在 2015-06-16 02:06:02, "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)> 写道:

Good afternoon Dr. Zheng,

Attached is the revised letter of invitation sent on behalf of Dr. James Le Duc for your visit to the GNL in February 2016.

Please contact me if you have any questions or if you need additional information.

Best regards,

**Imelda Mendoza**

The University of Texas Medical Branch

Institute for Human Infections & Immunity

Galveston National Laboratory

301 University Blvd., Galveston, TX. 77555-0610

Office: 409-266-6517 Fax: 409-266-6810

Email: [imendoza@utmb.edu](mailto:imendoza@utmb.edu)



**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Tuesday, June 09, 2015 8:33 PM  
**To:** Mendoza, Imelda  
**Cc:** Bente, Dennis A.; Xia, Han; LeDuc, James W.  
**Subject:** Re:Re:Chinese Scholarship to Visit UTMB

Dear Ms. Mendoza,

Thank you for the message with invitation letter. I shall apply for the approval from the Chinese Academy of Sciences with this invitation, and then for the visa from the American Embassy with approval of CAS and your (b)(6) form. And, I would like to tell the progress if you donot mind.

Best Regards,

Dasheng

—

Zheng, Dasheng PhD

=====

Wuhan National Biosafety Laboratory



Chinese Academy of Sciences  
Wuhan 430071, P.R.China.  
Tel: 86-27-5186 1004

Mobile: (b)(6)

=====

在 2015-06-10 05:16:02, "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)> 写道:

Good afternoon Dr. Zheng,

Please see attached letter of invitation sent on behalf of Dr. James Le Duc for your upcoming visit to the Galveston National Laboratory. The proposed dates for your visit is Monday, January 4, 2016 or later in that week, and will last approximately three (3) months.

Please contact me if you have any questions or if you need additional information.

Thank you.

**Imelda Mendoza**

The University of Texas Medical Branch  
Institute for Human Infections & Immunity  
Galveston National Laboratory  
301 University Blvd., Galveston, TX. 77555-0610  
Office: 409-266-6517 Fax: 409-266-6810  
Email: [imendoza@utmb.edu](mailto:imendoza@utmb.edu)



**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Friday, May 15, 2015 8:35 AM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; Bente, Dennis A.; Xia, Han  
**Subject:** Re:RE: Re:Chinese Scholarship to Visit UTMB

Dear Pr. James LeDuc,

With your kind assistance I have gotten an offer from the Chinese Academy of Sciences with 3-month stipends and double flight to your laboratory. The offer letter is in Chinese as attached sent to me today. This email is to request your naming start date, which is preferably later than Sept 15, 2015, considering at least 4 months from now on cost by the CAS administrative process and the US embassy visa process.

You might have known that at this moment the Wuhan P4 lab is in debugging/commissioning stage on individual equipment and instrument. It seems like a process of re-build whole lab. So your any assistance in my visit to your lab is so much appreciated.

Looking forward to your reply.

Best Regards,

Dasheng

—  
Zheng, Dasheng PhD

=====

Wuhan National Biosafety Laboratory  
Chinese Academy of Sciences  
Wuhan 430071, P.R.China.  
Tel: 86-27-5186 1004

Mobile: (b)(6)

=====

在 2015-04-01 21:43:13, "LeDuc, James W." <jwleduc@UTMB.EDU> 写道:

Dear Dr Zheng,

Thank you for the update, and best of luck as you continue to seek funding for your scholarship.

With best regards,

Jim

James W. Le Duc, Ph.D  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
jwleduc@utmb.edu

**From:** (b)(6) **On Behalf Of** d.zheng@wh.iov.cn

**Sent:** Tuesday, March 31, 2015 9:36 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Bente, Dennis A.; Xia, Han

**Subject:** Re:Chinese Scholarship to Visit UTMB

Dear Dr. James LeDuc,

Thank you for inviting me to the GNL in writing the invitation letter which provides opportunity of visit and study at your honored laboratory. Unfortunately I havenot gotten any acceptance news from the Chinese Scholarship Committee after the scheduled admission deadline. I am afraid I have to look for other funding resources.

Best Wishes,

Dasheng

Zheng, Dasheng PhD

=====

Wuhan National Biosafety Laboratory  
Chinese Academy of Sciences  
Wuhan, P.R.China.

Tel: 86-27-5186 1004

Mobile: (b)(6)

Email: [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)

=====

At 2014-11-26 10:44:53, "Bente, Dennis A." <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)> wrote:

- 隱藏引用文字 -

Dear Dasheng,

Han translated the requirements for me and we are happy to write an invitation letter for you. I talked to Dr. Le Duc, director of the Galveston National Laboratory, and he agreed to write a letter for you. I copied him on this email. Dr. Le Duc will also involve our building engineer, Miguel Grimaldo, in the process of planning your visit.

Best wishes,

Dennis

**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)

**Sent:** Saturday, November 22, 2014 1:46 AM

**To:** Bente, Dennis A.

**Cc:** Xia, Han

**Subject:** Re:RE: Nice to meet you at Wuhan

Hi Den,

At this moment I have a chance to apply for some fund to support my idea to UTMB from the China Scholarship Committee. May I ask for your help in writing an invitation letter as a prerequisite for this fund? The webpage (in Chinese only) of this fund is as follow:

<http://www.csc.edu.cn/Chuquo/43988dd354584badbeb2faf380d99859.shtml>

Could Han do a little interpretation so as to make sure what we need to do? According to the Item 14 of the fund bidding approach shown in the webpage, the applicant should have an invitation from abroad in advance.

In my proposal of visit to your lab, I shall accept trainings in high BSL laboratories at first; then, conduct experiments for some time, which is the solid work of this visit; and, last but the most important part, have lessons in biosafety management of GNL, playing as one reason for the fund. You might have better plans. Anyway I will follow your steps since I'm a trainee.

Your assistance would be appreciated greatly.

Best Regards,

Dasheng

--  
Zheng, Dasheng

=====

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Mid 44, Wuchang Xiaohongshan  
Wuhan 430071, P.R.China.

Mobile: (b)(6)

Email:



MEMORANDUM

TO: HR--Office of Diversity and International Affairs  
Rebecca Sealy Hospital 1.120  
Route 0106

FROM: Scott C. Weaver, MS, PhD  
Chair *ad interim*  
Department of Microbiology & Immunology  
Route 1019

DATE: August 25, 2015

SUBJECT: Request for (b)(6) Document for Dasheng Zheng, PhD;  
UTMB Job Posting Number: 46323 – Toya/Verlinda

Dr. James LeDuc, Professor Department of Microbiology & Immunology would like to offer the position of International Visiting Scientist to the individual named above, who is currently a researcher At Wuhan Institute of Virology, Chinese Academy of Sciences in Wuhan, P.R. China. A copy of his C.V., completed Office of Diversity and International Affairs "Pre-Arrival Data Sheet," copies of his passport biographical and visa pages (and those of accompanying family members,) and the relevant documents listed on the appropriate (b)(6) Check List" are attached.

This employment offer is contingent upon presenting evidence of employment eligibility, successful UTMB and/or TDCJ security clearance and pre-employment drug screening, and is effective after passing these hiring requirements. This offer will be withdrawn for beneficiaries who fail to pass any of these requirements. Should this occur, any return travel expenses are the responsibility of the beneficiary

I am aware that a (b)(6) exchange visitor may be subject to a "two year home country physical presence requirement" following completion of the (b)(6) program. I understand that all UTMB requirements with regard to selection and recruitment, including verification of academic credentials to ensure eligibility for the position offered, must be met. For Classified Research positions this includes providing a copy of the pertinent academic diploma with English translation if appropriate, as well as a copy of a U.S. degree equivalency evaluation prepared by an independent credential evaluation agency. I understand that the visa paperwork cannot be initiated until all required steps are completed and all required documentation is provided.

Listed below is additional information needed to prepare the (b)(6) document:

**UTMB Position Offered:** International Visiting Scientist

**Start Date:** 1/1/2016—03/31/2016

**Length of Stay:** 3 months

**UTMB Salary (if any):** No

**Other Source of Funding:** (see attached letter from Chinese Academy of Sciences) \$2,000/month x 3 months = \$6,000

**UTMB Employee Benefits:** NO


**Location of Activities:** UTMB (GNL Bldg.)

**Brief Description of Activity:** While at UTMB, Dr. Zheng will

Please call Ana Ramos at ext. 22724 when the document is ready to be picked up and sent to the prospective exchange visitor.

Thank you for your assistance.

---

**From:** Ramos, Analaura  
**Sent:** Tuesday, September 1, 2015 12:21 PM  
**To:** LeDuc, James W.  
**Subject:** RE: RE:RE: Re:RE: Re:RE: Re:RE: Re:RE: Re:RE: (b)(6)  
**Attachments:** Zheng, Dasheng  Sponsor letter 8.25.15.doc

Can you help me complete the attached sponsor letter please.

Thank you

**Ana Laura Ramos**  
Sr. Administrative Manager  
Microbiology & Immunology  
301 University Blvd., Galveston, TX 77555-1019  
P 409.772-2724  
F 409.772-2386 E [anramos@utmb.edu](mailto:anramos@utmb.edu)



*Working together to work smarter.*

**From:** LeDuc, James W.  
**Sent:** Tuesday, September 01, 2015 12:12 PM  
**To:** Ramos, Analaura  
**Subject:** RE: RE:RE: Re:RE: Re:RE: Re:RE: Re:RE: Re:RE: (b)(6)

Ana, let me know if I can help. I don't recall exactly where things stand but I can write up some text if needed.

Thanks, Jim

**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Monday, August 31, 2015 8:03 PM  
**To:** Ramos, Analaura  
**Cc:** LeDuc, James W.  
**Subject:** Re:RE: Re:RE: Re:RE: Re:RE: Re:RE: (b)(6)

Dear Analaura,

Any kind of collaboration and academic exchange is warmly welcome since I am an exchange visitor.

To tell the truth, the Wuhan Institute of Virology must sign Chinese agreement with me after I receive the visa from the USA embassy following passing through the censorship by the Chinese Academy of Sciences, to define the activities in USA, the detailed financial items including the pledged asset, the punish list upon agreement broken and the proper allocation when my returning back from USA. AND, this agreement must be notarized. Or, I am able to receive neither flight tickets from CAS nor fellowship from the Education Department, Consulate-general of China in Houston(CGCH). In one word, the procedure of an exchange visitor is complicated and time-costing. However,



every step needs mutual interactions, including funding application, your invitation, CAS approval (b)(6) CAS censoring, US visa, pledged asset, agreement, notarization and registration in CGCH.

Anyway I shall forward your agreement to my P.I., but am afraid it might be signed until with the Chinese one.

Could you please tell me what is going on with my (b)(6) application? You would be appreciated so much if you send the (b)(6)

Best wishes,

Dasheng

--  
Zheng, Dasheng PhD  
=====

Wuhan National Biosafety Laboratory  
Chinese Academy of Sciences  
Wuhan 430071, P.R.China.  
Tel: 86-27-5186 1004  
Mobile: (b)(6)  
=====

在 2015-08-29 02:34:56, "Ramos, Analaura" <[anramos@utmb.edu](mailto:anramos@utmb.edu)> 写道:

Good afternoon Dasheng Zheng,

Please have the Wuhan Chinese Academy of Sciences complete the attached Visiting Scientist agreement for your visit. Please let Dr. LeDuc or I know if you have any questions.

Thank you

Ana Laura Ramos

Sr. Administrative Manager

Microbiology & Immunology

301 University Blvd., Galveston, TX 77555-1019

P 409.772-2724

F 409.772-2886 E [anramos@utmb.edu](mailto:anramos@utmb.edu)





Working together to work smarter

**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Wednesday, August 26, 2015 8:05 PM  
**To:** Ramos, Analaura  
**Subject:** Re:RE: Re:RE: Re:(b)(6)

Hello Ana,

I asked GCE Inc. who sent the report. GCE told me that the recipient's name was printed wrong and re-sent the report. Would you please wait for a while to let the mail undergo? Dr. Han Xia, another contact in Prof. James' laboratory at your department, might care of this report to you soon.

Best regards,

Dasheng

在 2015-08-25 23:37:53, "Ramos, Analaura" <[anramos@utmb.edu](mailto:anramos@utmb.edu)> 写道:

Good morning Dasheng,

I am in receipt of your documents. Your file however, will not be complete until item# 4 the credential equivalency has been received. Can you please tell me your current title and position at Wuhan Institute of Virology?

Thank you

Ana Laura Ramos

Sr. Administrative Manager

Microbiology & Immunology

301 University Blvd., Galveston, TX 77555-1019

P 409.772-2724

F 409.772-2366 E [anramos@utmb.edu](mailto:anramos@utmb.edu)



Working together to work smarter.

**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Thursday, August 20, 2015 1:23 AM  
**To:** Ramos, Analaura  
**Subject:** Re:RE: Re: (b)(6)

Name of prospective J-1: Dasheng Zheng

Department: GNL/Microbiol. & Immunol.

Department contact: Imelda Mendoza/Han Xia

August 20, 2015

Hi Ana,

Now I have collected the documents for issuance of (b)(6) form required by the (b)(6) checklist.

1. CV. File: [ZhengCV.pdf](#)

2. PADA. The datasheet has been filled in and signed on July 24. File: [padata\\_Zheng.pdf](#)

3. Diploma. File: [Zheng-Phd\\_degree\\_certificate.pdf](#)

4. Credential equivalency statement. The evaluation application of CES was accepted on July 29 by Global Credential Evaluators with invoice No. 20916.

After 10-15 business day turnaround time hopefully the result comes soon. I shall forward the result to you upon receiving.

5. Passport. File: Zheng2015passport.pdf

6. Documents for (b)(6) The issue of (b)(6) is simultaneously applied for. Files:

6a. Zheng (b)(6) 6b. Zheng (b)(6)

7. Financial support. I have gotten financial support from the Chinese Academy of Sciences (CAS) shown by the file Zheng2015CASfunding-GNL.pdf and gotten personal banking certificate for my wife shown by the file zheng2015personalbanking.pdf.

At this moment all documents except for item 4, which "is being processed" and is supposed to be ready by tomorrow August 21, are already prepared for revision. Would you please take a look at to check if the files are eligible for issuance of (b)(6) Your reply is appreciated.

Best wishes,

Dasheng

--  
Zheng, Dasheng PhD

=====

Wuhan National Biosafety Laboratory  
Chinese Academy of Sciences  
Wuhan 430071, P.R.China.  
Tel: 86-27-5186 1004

Mobile: (b)(6)

=====

在 2015-07-20 23:48:27, "Ramos, Analaura" <[anramos@utmb.edu](mailto:anramos@utmb.edu)> 写道:

Hello,

Yes, (b)(6)

Thank you

Ana Laura Ramos

Sr. Administrative Manager

Microbiology & Immunology

301 University Blvd., Galveston, TX 77555-1019

P 409 772-2754

F 409 772-2380 E [anramos@utmb.edu](mailto:anramos@utmb.edu)



Working together to work wonders!

**From:** (b)(6) **On Behalf Of** [d.zheng@wh.iov.cn](mailto:d.zheng@wh.iov.cn)  
**Sent:** Monday, July 20, 2015 1:58 AM  
**To:** Ramos, Analaura  
**Subject:** Re: (b)(6)

Dear Ana,

Thank you for the message for the (b)(6) form. At this moment I am preparing for the materials. (b)(6)

(b)(6)

Best Regards,

Dasheng

--

Zheng, Dasheng PhD

=====

Wuhan National Biosafety Laboratory  
Chinese Academy of Sciences  
Wuhan 430071, P.R.China.  
Tel: 86-27-5186 1004

Mobile: (b)(6)

=====

At 2015-07-15 00:46:16, "Ramos, Analaura" <[anramos@utmb.edu](mailto:anramos@utmb.edu)> wrote:

Good morning Dr. Zheng,

I will be assisting you in gathering all documentation for issuance of (b)(6) form. The Form (b)(6) "Certificate of Eligibility for Exchange Visitor (b)(6) status is required to apply for a (b)(6) stamp from a US consular post in the country of residence.

Please send me items 1-7 on the attached (b)(6) checklist. You can send them electronically via email.

Also please fill out the attached pre-arrival data sheet and send back to me.

For item # 4 Credential equivalency statement. For persons who received a foreign degree, this documentation must include a U.S. credential equivalency evaluation prepared by an independent agency. Prospective (b)(6) individuals must obtain a credential equivalency evaluation before reporting to UTMB. Here is a partial listing of credential evaluation agencies that will prepare the required degree equivalency statement.

Partial Listing of Credential Evaluation Agencies

Global Credential Evaluators

World Education Credential Evaluators

AACRO Foreign Education Credential Service

SPANTRAN

TRUSTFORTE

Education Evaluators International, Inc.

Career Consultant International

Thank you

**Ana Laura Ramos**

Sr. Administrative Manager

Microbiology & Immunology

301 University Blvd., Galveston, TX 77555-1019

P 409.772-2724

F 409.772-2366 E [anramos@utmb.edu](mailto:anramos@utmb.edu)



**Working together to work wonders.**



MEMORANDUM

TO: HR--Office of Diversity and International Affairs  
Rebecca Sealy Hospital 1.120  
Route 0106

FROM: Scott C. Weaver, MS, PhD  
Chair *ad interim*  
Department of Microbiology & Immunology  
Route 1019

DATE: August 25, 2015

SUBJECT: Request for (b)(6) Document for Dasheng Zheng, PhD;  
UTMB Job Posting Number: 46323 – Toya/Verlinda

Dr. James LeDuc, Professor Department of Microbiology & Immunology would like to offer the position of International Visiting Scientist to the individual named above, who is currently a researcher At Wuhan Institute of Virology, Chinese Academy of Sciences in Wuhan, P.R. China. A copy of his C.V., completed Office of Diversity and International Affairs "Pre-Arrival Data Sheet," copies of his passport biographical and visa pages (and those of accompanying family members,) and the relevant documents listed on the appropriate (b)(6) Check List" are attached.

This employment offer is contingent upon presenting evidence of employment eligibility, successful UTMB and/or TDCJ security clearance and pre-employment drug screening, and is effective after passing these hiring requirements. This offer will be withdrawn for beneficiaries who fail to pass any of these requirements. Should this occur, any return travel expenses are the responsibility of the beneficiary

I am aware that a (b)(6) exchange visitor may be subject to a "two year home country physical presence requirement" following completion of the (b)(6) program. I understand that all UTMB requirements with regard to selection and recruitment, including verification of academic credentials to ensure eligibility for the position offered, must be met. For Classified Research positions this includes providing a copy of the pertinent academic diploma with English translation if appropriate, as well as a copy of a U.S. degree equivalency evaluation prepared by an independent credential evaluation agency. I understand that the visa paperwork cannot be initiated until all required steps are completed and all required documentation is provided.

Listed below is additional information needed to prepare the (b)(6) document:

**UTMB Position Offered:** International Visiting Scientist

**Start Date:** 1/1/2016—03/31/2016

**Length of Stay:** 3 months

**UTMB Salary (if any):** No

**Other Source of Funding:** (see attached letter from Chinese Academy of Sciences) \$2,000/month x 3 months = \$6,000

**UTMB Employee Benefits:** NO

**Location of Activities:** UTMB (GNL Bldg.)

**Brief Description of Activity:** While at UTMB, Dr. Zheng will

Please call Ana Ramos at ext. 22724 when the document is ready to be picked up and sent to the prospective exchange visitor.

Thank you for your assistance.



---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Tuesday, September 1, 2015 4:33 PM  
**To:** 'Dave Franz'; Baric, Ralph S.; Diane Griffin'; Ksiazek, Thomas G.; LeDuc, James W.; 'Palese, Peter'  
**Cc:** (b)(6) Baric, Toni C'; Mendoza, Imelda; Lowenthal, Micah; Ahearn, John  
**Subject:** Final China Bio Mtng Conf Call  
**Attachments:** DRAFT AGENDA for US-China Infectious Disease Meeting 9-1-15.docx; NAS-CAS human gene editing meeting DRAFT AGENDA - revised by CAS 9-1-15.docx

Greetings,

I have returned from my 明德大学中文 adventure. Thank you for all your work to move this project forward over the summer.

We are now in the final stages of planning for the upcoming "CAS-NAS Responsible Research on Human Gene Editing Meeting" and the "China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security" set to take place on September 28, 29, 30 in Beijing, China. Thank you for agreeing to participate and speak at the meeting. I have attached slightly updated draft agendas to remind you about the speaking responsibilities during the week and have highlighted a few points that we might want to address. I also hope to hear from CAS soon about their thoughts on the agendas and will send you their comments when I have them. I am also working to schedule a briefing for interested USG experts while we are in Beijing.

We plan to have a final conference call before the trip. **Please send John Ahearn (cced) your availability to participate in a one hour call on either September 16, 17, 18 or 21.**

Please also plan to provide your slides to the group before the call. We will discuss the final agendas, presentations, and the travel details during the call. The final agendas and a comprehensive travel memo will be circulated before the call.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** Rusek, Benjamin  
**Sent:** Friday, August 28, 2015 6:40 PM  
**To:** 'Dave Franz'; Baric, Ralph S.; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'  
**Cc:** (b)(6) 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah; Ahearn, John  
**Subject:** RE: China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

Greetings,

A CISAC member sent us a few articles related to CRISPER-cas9 that you might find informative. I have attached the following articles for your information.

1. Novel techniques for the prevention of mitochondrial DNA disorders: an ethical review, Nuffield Council on Bioethics

2. A prudent path forward for genomic engineering and germline gene modification, Baltimore et al.
3. What If Extinction Is Not Forever, Sherkow and Greely
4. Brave New Genome, Lander
5. Don't edit the human germ line, Lanphier et al.
6. CRISPR germline engineering—the community speaks, Bosley et al.

We might even want to send these to the CAS experts we will meet with in advance of the September 28 meeting.

PS The first round of visas for were processed and went out via Fed Ex. Leduc, Ksiazek and Baric should get passports back today.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** Ahearn, John

**Sent:** Tuesday, June 30, 2015 3:32 PM

**To:** 'Dave Franz'; 'Berkelman, Ruth L'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'

**Cc:** (b)(6); 'Baric, Toni C'; 'Mendoza, Imelda'; 'Palese, Peter'; Lowenthal, Micah; Rusek, Benjamin

**Subject:** China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

All,

As discussed, Dave Franz and Micah Lowenthal request that you join a conference call on July 8 at 2:30 p.m. EDT to discuss the September 29-30 biosafety meeting in Beijing. The call should be about one hour, but we'll allow 90 minutes in case additional time is needed.

The dial-in information for the call is:

Toll free: 888-537-7715

Access code: 12223052#

Micah will send an agenda for the call in a later e-mail. Please let me know if you have any questions.

Thank you.

John Ahearn  
Senior Program Assistant  
Committee on International Security and Arms Control  
Policy and Global Affairs Division  
The National Research Council  
National Academy of Sciences

-----  
500 Fifth Street, NW  
Keck Center – WS 500  
Washington, DC 20001  
T: 202.334.2239 | E: [jahearn@nas.edu](mailto:jahearn@nas.edu)  
W: [www.national-academies.org](http://www.national-academies.org)

**THE NATIONAL ACADEMIES**  
*Advisers to the Nation on Science, Engineering, and Medicine*

**DRAFT AGENDA****China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security**

September 29-30, 2015

Chinese Academy of Sciences Institute of Microbiology

Bei Chen Xi Lu, Chaoyang Qu, Beijing Shi, China

**NOTE TO CAS:** This is a draft agenda subject to CAS amendment and mutual agreement. We propose to allot 20 minutes for the American speaker and 20 minutes for the Chinese speaker in each session and to use the remainder of the session time for discussion. We think that the sessions will be informative and valuable. We find that informal discussions that occur during tea breaks and over meals are valuable, too, both in building relationships and exploring ideas from the formal sessions. NAS would be pleased to host a lunch, a banquet, or a reception to provide more time for these interactions.

**Sunday, September 27, 2015** American participants arrive in Beijing,  
 Lodging at Intercontinental Hotel Bei Chen

**Monday, September 28, 2015** Meeting on Human Gene Editing, CAS, 09.00-12.00

[See Separate Agenda]

**Tuesday, September 29, 2015** Institute of Microbiology, CAS

8:30-9:00 Participants arrive at meeting location

9:00-9:15 Introductory remarks by CAS and NAS leadership

9:15-10:30 **Session I: The “Safety-Security-Regulation-Progress” Conundrum:**  
*This session will touch on issues associated with high-containment labs globally, but focus on policy issues that are particular to labs in the United States and China. High containment laboratories are being created for a variety of purposes including: human health/public health, animal health/agriculture, basic research (including synthetic biology), product development, test and evaluation, and security/forensics. High containment laboratories are managed primarily by governments, including health, agriculture, defense, and other ministries, but also in some cases by academia and commercial industry. The proliferation of high containment laboratories underscores the importance of developing a biological risk management approach that facilitates research and public health missions while enhancing biological safety and laboratory biological security in both new and existing facilities. The speakers will outline Chinese and U.S. issues related to the balance between safety, security, and progress. Speakers will introduce the concept of achieving a balance between safety, regulation, and advancing life science research on dangerous pathogens.*

Session ~~Chair/Moderator~~ TBD

American Speaker: **David Franz**, “Finding the Balance Among Safety, Security, Regulation, and Progress: The U.S. Experience”

Chinese Speaker: **Qiang Wei**, [Title to be announced]

Discussion

10:30-11:00 Tea Break

11:00-12:00 **Session II: Influenza**

*Seasonal influenza remains a major cause of morbidity and mortality worldwide annually and the specter of pandemic flu remains with us. There has been a great deal of excellent basic and applied viral research conducted both in China and the United States in recent years. This session will touch on issues associated with the virus, the disease load in both our countries and the enormous strides being made to both understand viral pathogenesis and develop medical countermeasures.*

Session Chair/Moderator: TBD

Chinese Speaker: **Jinhua Liu** and **Yi Shi**, [Title to be announced]

American Speaker: **Peter Palese**, "Influenza: Paths to a Better Vaccine?"

Discussion

12:00-13:30 Lunch

**13:30-14:30 Session III: Ebola**

*Ebola, once a disease of the African bush, occasionally jumping from animals to a few humans, demonstrated itself as a powerful and devastating force in urban West Africa in the last year. Both China and the United States—while little impacted directly—provided support to the region and continue to assist even after the outbreak has been mostly contained. This session will touch on issues associated with the virus, the outbreak, and the way ahead as we work to prepare for this virus and others globally.*

Session Chair/Moderator: TBD

American Speaker: **Thomas Ksiazek**, "Ebola: Sustainable Austere Environment Laboratories"

Chinese Speaker: **Wuchun Cao** and **Di Liu**, [Title to be announced]

Discussion

**14:30-15:30 Session IV: Middle East Respiratory Syndrome (MERS)**

*The etiology of Middle East Respiratory Syndrome, like that of the Ebola outbreak is a zoonotic virus. Emerging initially in Saudi Arabia, MERS, unlike Ebola has found a significant foothold geographically outside the region of emergence. This session will touch on issues associated with understanding the virus, its pathogenesis, and the implications for dealing with the outbreak, developing medical countermeasures, and preparation for the unknown future.*

Session Chair/Moderator: TBD

American Speaker: **Ralph Baric**, "MERS: Genetic Systems and Models"

Chinese Speaker: **Wenjie Tan** and **Deyin Guo**, [Title to be announced]

Discussion

15:30-16:00 Tea Break

**16:00-17:15 Session V: Gain of Function Research**

*The new tools of molecular biology and genetics, now globally available, have made what only nature could do, typically slowly, attainable in the laboratory in days or weeks. While the tools will greatly enhance our ability to both understand disease and develop countermeasures, they could also be used for great harm, either accidentally or intentionally. This session will touch on issues associated with gain of function (GoF) research and policy in both our countries and give us an opportunity to share thoughts and ideas regarding the way ahead. Is there research that is too dangerous to undertake? Will we know it when we see it and how can we balance a sometimes only partially understood risk with the benefit that might come from such work?*

Session Chair/Moderator: TBD

Chinese Speaker: **Cheng Cao**, [Title to be announced]

American Speaker: **David Franz** and **James Le Duc**, "NAS Gain-of-Function Meeting Report (The scientists' view)"  
Discussion

17:15-17:30 Review of Day 1 and plan for Day 2

17:30 Meeting adjourn for day

18:00 Dinner (Banquet?)

### **Wednesday, September 30**

9:00-10:30 **Session VI: High-Containment Labs...Safe, Secure, Productive, and Sustainable**

*This session will discuss the need for high containment laboratories; construction and maintenance costs; laboratory safety and security issues; environmental risks; training; community relations; what to do in a crisis; and emerging technology in biology. The importance of laboratory leadership and a healthy social culture may also be addressed.*

Session Chair/Moderator: TBD

Chinese Speaker: **Zhiming Yuan**, [Title to be announced]

American Speaker: **James Le Duc**, "High Containment Laboratories: Putting the pieces of laboratory safety and global health security together"

10:30-11:00 Tea Break

11:00-12:00 **Session VII: Roundtable discussion of themes from discussions in earlier sessions**

[Description of session]

Session Chair/Moderator: TBD

Discussion

12:00-13:30 Lunch

13:30-15:00 **Session VIII: Areas for Enhanced Cooperation**

*This session will focus on the goal of establishing collaborative partnerships. Discussion topics could include initiation/planning of additional academies-hosted workshops, bilateral or regional, addressing issues and policy challenges specific to containment laboratories and infectious disease research more broadly and improving the functionality and utility of biosafety associations. The session could also address joint training, student exchange or collaborative preparation for emerging disease outbreak response or public, government, industry and academia education about laboratory safety, security and responsible life-sciences research.*

Session Chair/Moderator: TBD

American Speaker: **Diane Griffin**, "Possible roles for CAS and NAS in Enhancing Cooperation on these topics"

Chinese Speaker: **George F Gao**, [Title to be announced]

Discussion

15:00-15:30 Closing Remarks from CAS and NAS leadership

15:30 Meeting adjourn

### **Thursday, October 1, 2015**

American participants depart Beijing

## DRAFT AGENDA

Chinese Academy of Sciences-National Academies of Sciences and Medicine  
Responsible Research on Human Gene Editing  
Meeting Monday, 28 September 2015  
09.00-12.00  
Location: Meeting Room E201, CAS Institute of Microbiology  
Working language: English

**NOTE TO CAS:** This is a draft agenda subject to CAS amendment and mutual agreement. We propose to have informal discussion around structured topics in each session. If CAS participants wish to present formal remarks, we will be interested to listen and we would like to ensure that we have enough time to discuss those remarks. Furthermore, we think that the sessions will be informative and valuable. We find that informal discussions that occur during tea breaks and over meals are valuable, too, both in building relationships and exploring ideas from the formal sessions. NAS would be pleased to host a lunch or a reception, if that is appropriate.

NAS Participants: Vice President **Diane Griffin**, Prof. **Ralph Baric**, Dr. **David Franz**, Dr. **Thomas Ksiazek**, Prof. **James Le Duc**, Prof. **Peter Palese**, and Mr. **Ben Rusek**.

CAS participants: Vice President, Prof. **Zhang Yaping** (molecular genetics), Prof. **Xu Zhihong** (plant biology and scientific ethics), Profs. **Pei Duanqing** and **Zhou Qi** (stem cell), Prof. **Zhao Guoping** (synthetic biology and bioethics), Prof. **Li Zhenzhen** (scientific morality and ethics), Profs. **Gao Fu** and **Xue Yongbiao**.

Objectives: Vice President **Griffin** and her colleagues will provide an update on activities and substantive issues in the NAS-NAM initiative on human genome editing and will seek input from Chinese experts on these topics. Using the topics listed on the agenda as starting points, the participants will engage in an informal moderated discussion of these topics.

09.00-09.15	Welcome ( <b>Zhang</b> ) and introductions
09.15-09.30	Overview of the goals for the discussion ( <b>Xu, Griffin</b> )
09.30-10.00	Update on the status of planning for the gene-editing initiative, including an overview of each of the topic areas ( <b>Griffin</b> with additional comments from <b>Pei</b> )
10.00-10.30	Discussion of the current state of the science and available technologies for gene editing; the range and diversity of users of this technology and the diversity of the research being conducted. (moderated by <b>Xu</b> )
10.30-10.45	Tea break
10.45-11.15	Discussion of the rationale(s), potential benefits and risks inherent in conducting human genome editing research and in potential applications; (moderated by <b>Xu</b> )
11.15-11.45	Discussion of existing and potentially needed regulatory principles, standards, or guidance for such research and potential applications; ethical concerns; legal considerations. (moderated by <b>Xu</b> )
11.45-12.00	Next steps, including critical stakeholders and how to engage them.
12.00	Adjourn
12.30	Lunch hosted by VP <b>Zhang</b>



---

**From:** Ahearn, John <JAhearn@nas.edu>  
**Sent:** Tuesday, September 8, 2015 10:02 AM  
**To:** Ksiazek, Thomas G.  
**Subject:** FW: Final China Bio Mtng Conf Call  
**Attachments:** DRAFT AGENDA for US-China Infectious Disease Meeting 9-1-15.docx; NAS-CAS human gene editing meetingDRAFT AGENDA - revised by CAS 9-1-15.docx

Hi Tom,

Ben and I wanted to check with you on your availability to be on this conference call. We have narrowed things down and believe that it will be held on the 21<sup>st</sup>. Let us know if you will be available. Thanks!

John Ahearn  
Senior Program Assistant  
Committee on International Security and Arms Control  
Policy and Global Affairs Division  
The National Research Council  
National Academy of Sciences, Engineering and Medicine

---

500 Fifth Street, NW  
Keck Center – WS 500  
Washington, DC 20001  
T: 202.334.2239 | E: [jahearn@nas.edu](mailto:jahearn@nas.edu)  
W: [www.national-academies.org](http://www.national-academies.org)

*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE

---

**From:** Rusek, Benjamin  
**Sent:** Tuesday, September 01, 2015 5:33 PM  
**To:** 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'  
**Cc:** (b)(6); Baric, Toni C; 'Mendoza, Imelda'; Lowenthal, Micah; Ahearn, John  
**Subject:** Final China Bio Mtng Conf Call  
**Importance:** High

Greetings,

I have returned from my 明德大学中文 adventure. Thank you for all your work to move this project forward over the summer.

We are now in the final stages of planning for the upcoming "CAS-NAS Responsible Research on Human Gene Editing Meeting" and the "China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security" set to take place on September 28,29,30 in Beijing, China. Thank you for agreeing to participate and speak at the meeting. I have attached slightly updated draft agendas to remind you about the speaking responsibilities during the week and have highlighted a few points that we might want to address. I also hope to hear from CAS soon about their thoughts on the agendas and will send you their comments when I have them. I am also working to schedule a briefing for interested USG experts while we are in Beijing.

We plan to have a final conference call before the trip. **Please send John Ahearn (cced) your availability to participate in a one hour call on either September 16,17,18 or 21.**

Please also plan to provide your slides to the group before the call. We will discuss the final agendas, presentations, and the travel details during the call. The final agendas and a comprehensive travel memo will be circulated before the call.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** Rusek, Benjamin

**Sent:** Friday, August 28, 2015 6:40 PM

**To:** 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'

**Cc:** (b)(6) 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah; Ahearn, John

**Subject:** RE: China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

Greetings,

A CISAC member sent us a few articles related to CRISPER-cas9 that you might find informative. I have attached the following articles for your information.

1. Novel techniques for the prevention of mitochondrial DNA disorders: an ethical review, Nuffield Council on Bioethics
2. A prudent path forward for genomic engineering and germline gene modification, Baltimore et al.
3. What If Extinction Is Not Forever, Sherkow and Greely
4. Brave New Genome, Lander
5. Don't edit the human germ line, Lanphier et al.
6. CRISPR germline engineering—the community speaks, Bosley et al.

We might even want to send these to the CAS experts we will meet with in advance of the September 28 meeting.

PS The first round of visas for were processed and went out via Fed Ex. Leduc, Ksiazek and Baric should get passports back today.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** Ahearn, John

**Sent:** Tuesday, June 30, 2015 3:32 PM

**To:** 'Dave Franz'; 'Berkelman, Ruth L'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'

**Cc:** (b)(6) 'Baric, Toni C'; 'Mendoza, Imelda'; 'Palese, Peter'; Lowenthal, Micah; Rusek, Benjamin

**Subject:** China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

All,

As discussed, Dave Franz and Micah Lowenthal request that you join a conference call on July 8 at 2:30 p.m. EDT to discuss the September 29-30 biosafety meeting in Beijing. The call should be about one hour, but we'll allow 90 minutes in case additional time is needed.

The dial-in information for the call is:



Toll free: 888-537-7715  
Access code: 12223052#

Micah will send an agenda for the call in a later e-mail. Please let me know if you have any questions.

Thank you.

John Ahearn  
Senior Program Assistant  
Committee on International Security and Arms Control  
Policy and Global Affairs Division  
The National Research Council  
National Academy of Sciences

---

500 Fifth Street, NW  
Keck Center – WS 500  
Washington, DC 20001  
T: 202.334.2239 | E: [jahearn@nas.edu](mailto:jahearn@nas.edu)  
W: [www.national-academies.org](http://www.national-academies.org)

**THE NATIONAL ACADEMIES**  
*Advisers to the Nation on Science, Engineering, and Medicine*

**DRAFT AGENDA****China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security**

September 29-30, 2015

Chinese Academy of Sciences Institute of Microbiology

Bei Chen Xi Lu, Chaoyang Qu, Beijing Shi, China

**NOTE TO CAS:** This is a draft agenda subject to CAS amendment and mutual agreement. We propose to allot 20 minutes for the American speaker and 20 minutes for the Chinese speaker in each session and to use the remainder of the session time for discussion. We think that the sessions will be informative and valuable. We find that informal discussions that occur during tea breaks and over meals are valuable, too, both in building relationships and exploring ideas from the formal sessions. NAS would be pleased to host a lunch, a banquet, or a reception to provide more time for these interactions.

**Sunday, September 27, 2015** American participants arrive in Beijing,  
 Lodging at Intercontinental Hotel Bei Chen

**Monday, September 28, 2015** Meeting on Human Gene Editing, CAS, 09.00-12.00

[See Separate Agenda]

**Tuesday, September 29, 2015** Institute of Microbiology, CAS

8:30-9:00 Participants arrive at meeting location

9:00-9:15 Introductory remarks by CAS and NAS leadership

9:15-10:30 **Session I: The “Safety-Security-Regulation-Progress” Conundrum:**  
*This session will touch on issues associated with high-containment labs globally, but focus on policy issues that are particular to labs in the United States and China. High containment laboratories are being created for a variety of purposes including: human health/public health, animal health/agriculture, basic research (including synthetic biology), product development, test and evaluation, and security/forensics. High containment laboratories are managed primarily by governments, including health, agriculture, defense, and other ministries, but also in some cases by academia and commercial industry. The proliferation of high containment laboratories underscores the importance of developing a biological risk management approach that facilitates research and public health missions while enhancing biological safety and laboratory biological security in both new and existing facilities. The speakers will outline Chinese and U.S. issues related to the balance between safety, security, and progress. Speakers will introduce the concept of achieving a balance between safety, regulation, and advancing life science research on dangerous pathogens.*

Session ~~Chair/Moderator~~ TBD

American Speaker: **David Franz**, “Finding the Balance Among Safety, Security, Regulation, and Progress: The U.S. Experience”

Chinese Speaker: **Qiang Wei**, [Title to be announced]

Discussion

10:30-11:00 Tea Break

11:00-12:00 **Session II: Influenza**

*Seasonal influenza remains a major cause of morbidity and mortality worldwide annually and the specter of pandemic flu remains with us. There has been a great deal of excellent basic and applied viral research conducted both in China and the United States in recent years. This session will touch on issues associated with the virus, the disease load in both our countries and the enormous strides being made to both understand viral pathogenesis and develop medical countermeasures.*

Session Chair/Moderator: TBD

Chinese Speaker: **Jinhua Liu** and **Yi Shi**, [Title to be announced]

American Speaker: **Peter Palese**, "Influenza: Paths to a Better Vaccine?"

Discussion

12:00-13:30 Lunch

**13:30-14:30 Session III: Ebola**

*Ebola, once a disease of the African bush, occasionally jumping from animals to a few humans, demonstrated itself as a powerful and devastating force in urban West Africa in the last year. Both China and the United States—while little impacted directly—provided support to the region and continue to assist even after the outbreak has been mostly contained. This session will touch on issues associated with the virus, the outbreak, and the way ahead as we work to prepare for this virus and others globally.*

Session Chair/Moderator: TBD

American Speaker: **Thomas Ksiazek**, "Ebola: Sustainable Austere Environment Laboratories"

Chinese Speaker: **Wuchun Cao** and **Di Liu**, [Title to be announced]

Discussion

**14:30-15:30 Session IV: Middle East Respiratory Syndrome (MERS)**

*The etiology of Middle East Respiratory Syndrome, like that of the Ebola outbreak is a zoonotic virus. Emerging initially in Saudi Arabia, MERS, unlike Ebola has found a significant foothold geographically outside the region of emergence. This session will touch on issues associated with understanding the virus, its pathogenesis, and the implications for dealing with the outbreak, developing medical countermeasures, and preparation for the unknown future.*

Session Chair/Moderator: TBD

American Speaker: **Ralph Baric**, "MERS: Genetic Systems and Models"

Chinese Speaker: **Wenjie Tan** and **Deyin Guo**, [Title to be announced]

Discussion

15:30-16:00 Tea Break

**16:00-17:15 Session V: Gain of Function Research**

*The new tools of molecular biology and genetics, now globally available, have made what only nature could do, typically slowly, attainable in the laboratory in days or weeks. While the tools will greatly enhance our ability to both understand disease and develop countermeasures, they could also be used for great harm, either accidentally or intentionally. This session will touch on issues associated with gain of function (GoF) research and policy in both our countries and give us an opportunity to share thoughts and ideas regarding the way ahead. Is there research that is too dangerous to undertake? Will we know it when we see it and how can we balance a sometimes only partially understood risk with the benefit that might come from such work?*

Session Chair/Moderator: TBD

Chinese Speaker: **Cheng Cao**, [Title to be announced]

American Speaker: **David Franz** and **James Le Duc**, "NAS Gain-of-Function Meeting Report (The scientists' view)"  
Discussion

17:15-17:30 Review of Day 1 and plan for Day 2

17:30 Meeting adjourn for day

18:00 Dinner (Banquet?)

**Wednesday, September 30**

9:00-10:30 **Session VI: High-Containment Labs...Safe, Secure, Productive, and Sustainable**

*This session will discuss the need for high containment laboratories; construction and maintenance costs; laboratory safety and security issues; environmental risks; training; community relations; what to do in a crisis; and emerging technology in biology. The importance of laboratory leadership and a healthy social culture may also be addressed.*

Session Chair/Moderator: TBD

Chinese Speaker: **Zhiming Yuan**, [Title to be announced]

American Speaker: **James Le Duc**, "High Containment Laboratories: Putting the pieces of laboratory safety and global health security together"

10:30-11:00 Tea Break

11:00-12:00 **Session VII: Roundtable discussion of themes from discussions in earlier sessions**

[Description of session]

Session Chair/Moderator: TBD

Discussion

12:00-13:30 Lunch

13:30-15:00 **Session VIII: Areas for Enhanced Cooperation**

*This session will focus on the goal of establishing collaborative partnerships. Discussion topics could include initiation/planning of additional academies-hosted workshops, bilateral or regional, addressing issues and policy challenges specific to containment laboratories and infectious disease research more broadly and improving the functionality and utility of biosafety associations. The session could also address joint training, student exchange or collaborative preparation for emerging disease outbreak response or public, government, industry and academia education about laboratory safety, security and responsible life-sciences research.*

Session Chair/Moderator: TBD

American Speaker: **Diane Griffin**, "Possible roles for CAS and NAS in Enhancing Cooperation on these topics"

Chinese Speaker: **George F Gao**, [Title to be announced]

Discussion

15:00-15:30 Closing Remarks from CAS and NAS leadership

15:30 Meeting adjourn

**Thursday, October 1, 2015**

American participants depart Beijing

## DRAFT AGENDA

Chinese Academy of Sciences-National Academies of Sciences and Medicine  
Responsible Research on Human Gene Editing  
Meeting Monday, 28 September 2015  
09.00-12.00  
Location: Meeting Room E201, CAS Institute of Microbiology  
Working language: English

**NOTE TO CAS:** This is a draft agenda subject to CAS amendment and mutual agreement. We propose to have informal discussion around structured topics in each session. If CAS participants wish to present formal remarks, we will be interested to listen and we would like to ensure that we have enough time to discuss those remarks. Furthermore, we think that the sessions will be informative and valuable. We find that informal discussions that occur during tea breaks and over meals are valuable, too, both in building relationships and exploring ideas from the formal sessions. NAS would be pleased to host a lunch or a reception, if that is appropriate.

NAS Participants: Vice President **Diane Griffin**, Prof. **Ralph Baric**, Dr. **David Franz**, Dr. **Thomas Ksiazek**, Prof. **James Le Duc**, Prof. **Peter Palese**, and Mr. **Ben Rusek**.

CAS participants: Vice President, Prof. **Zhang Yaping** (molecular genetics), Prof. **Xu Zhihong** (plant biology and scientific ethics), Profs. **Pei Duanqing** and **Zhou Qi** (stem cell), Prof. **Zhao Guoping** (synthetic biology and bioethics), Prof. **Li Zhenzhen** (scientific morality and ethics), Profs. **Gao Fu** and **Xue Yongbiao**.

Objectives: Vice President **Griffin** and her colleagues will provide an update on activities and substantive issues in the NAS-NAM initiative on human genome editing and will seek input from Chinese experts on these topics. Using the topics listed on the agenda as starting points, the participants will engage in an informal moderated discussion of these topics.

09.00-09.15	Welcome ( <b>Zhang</b> ) and introductions
09.15-09.30	Overview of the goals for the discussion ( <b>Xu, Griffin</b> )
09.30-10.00	Update on the status of planning for the gene-editing initiative, including an overview of each of the topic areas ( <b>Griffin</b> with additional comments from <b>Pei</b> )
10.00-10.30	Discussion of the current state of the science and available technologies for gene editing; the range and diversity of users of this technology and the diversity of the research being conducted. (moderated by <b>Xu</b> )
10.30-10.45	Tea break
10.45-11.15	Discussion of the rationale(s), potential benefits and risks inherent in conducting human genome editing research and in potential applications; (moderated by <b>Xu</b> )
11.15-11.45	Discussion of existing and potentially needed regulatory principles, standards, or guidance for such research and potential applications; ethical concerns; legal considerations. (moderated by <b>Xu</b> )
11.45-12.00	Next steps, including critical stakeholders and how to engage them.
12.00	Adjourn
12.30	Lunch hosted by VP <b>Zhang</b>

---

**From:** Ahearn, John <JAhearn@nas.edu>  
**Sent:** Tuesday, September 8, 2015 10:02 AM  
**To:** Ksiazek, Thomas G.  
**Subject:** FW: Final China Bio Mtng Conf Call  
**Attachments:** DRAFT AGENDA for US-China Infectious Disease Meeting 9-1-15.docx; NAS-CAS human gene editing meetingDRAFT AGENDA - revised by CAS 9-1-15.docx

Hi Tom,

Ben and I wanted to check with you on your availability to be on this conference call. We have narrowed things down and believe that it will be held on the 21<sup>st</sup>. Let us know if you will be available. Thanks!

John Ahearn  
Senior Program Assistant  
Committee on International Security and Arms Control  
Policy and Global Affairs Division  
The National Research Council  
National Academy of Sciences, Engineering and Medicine

---

500 Fifth Street, NW  
Keck Center – WS 500  
Washington, DC 20001  
T: 202.334.2239 | E: [jahearn@nas.edu](mailto:jahearn@nas.edu)  
W: [www.national-academies.org](http://www.national-academies.org)

*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE

---

**From:** Rusek, Benjamin  
**Sent:** Tuesday, September 01, 2015 5:33 PM  
**To:** 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'  
**Cc:** (b)(6); 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah; Ahearn, John  
**Subject:** Final China Bio Mtng Conf Call  
**Importance:** High

Greetings,

I have returned from my 明德大学中文 adventure. Thank you for all your work to move this project forward over the summer.

We are now in the final stages of planning for the upcoming "CAS-NAS Responsible Research on Human Gene Editing Meeting" and the "China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security" set to take place on September 28,29,30 in Beijing, China. Thank you for agreeing to participate and speak at the meeting. I have attached slightly updated draft agendas to remind you about the speaking responsibilities during the week and have highlighted a few points that we might want to address. I also hope to hear from CAS soon about their thoughts on the agendas and will send you their comments when I have them. I am also working to schedule a briefing for interested USG experts while we are in Beijing.

We plan to have a final conference call before the trip. **Please send John Ahearn (cced) your availability to participate in a one hour call on either September 16,17,18 or 21.**

Please also plan to provide your slides to the group before the call. We will discuss the final agendas, presentations, and the travel details during the call. The final agendas and a comprehensive travel memo will be circulated before the call.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** Rusek, Benjamin

**Sent:** Friday, August 28, 2015 6:40 PM

**To:** 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'

**Cc:** (b)(6) 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah; Ahearn, John

**Subject:** RE: China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

Greetings,

A CISAC member sent us a few articles related to CRISPER-cas9 that you might find informative. I have attached the following articles for your information.

1. Novel techniques for the prevention of mitochondrial DNA disorders: an ethical review, Nuffield Council on Bioethics
2. A prudent path forward for genomic engineering and germline gene modification, Baltimore et al.
3. What If Extinction Is Not Forever, Sherkow and Greely
4. Brave New Genome, Lander
5. Don't edit the human germ line, Lanphier et al.
6. CRISPR germline engineering—the community speaks, Bosley et al.

We might even want to send these to the CAS experts we will meet with in advance of the September 28 meeting.

PS The first round of visas for were processed and went out via Fed Ex. Leduc, Ksiazek and Baric should get passports back today.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

**From:** Ahearn, John

**Sent:** Tuesday, June 30, 2015 3:32 PM

**To:** 'Dave Franz'; 'Berkelman, Ruth L'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'

**Cc:** (b)(6) 'Baric, Toni C'; 'Mendoza, Imelda'; 'Palese, Peter'; Lowenthal, Micah; Rusek, Benjamin

**Subject:** China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

All,

As discussed, Dave Franz and Micah Lowenthal request that you join a conference call on July 8 at 2:30 p.m. EDT to discuss the September 29-30 biosafety meeting in Beijing. The call should be about one hour, but we'll allow 90 minutes in case additional time is needed.

The dial-in information for the call is:

Toll free: 888-537-7715  
Access code: 12223052#

Micah will send an agenda for the call in a later e-mail. Please let me know if you have any questions.

Thank you.

John Ahearn  
Senior Program Assistant  
Committee on International Security and Arms Control  
Policy and Global Affairs Division  
The National Research Council  
National Academy of Sciences

-----  
500 Fifth Street, NW  
Keck Center – WS 500  
Washington, DC 20001  
T: 202.334.2239 | E: [jahearn@nas.edu](mailto:jahearn@nas.edu)  
W: [www.national-academies.org](http://www.national-academies.org)

**THE NATIONAL ACADEMIES**  
*Advisers to the Nation on Science, Engineering, and Medicine*



**DRAFT AGENDA****China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security**

September 29-30, 2015

Chinese Academy of Sciences Institute of Microbiology

Bei Chen Xi Lu, Chaoyang Qu, Beijing Shi, China

**NOTE TO CAS:** This is a draft agenda subject to CAS amendment and mutual agreement. We propose to allot 20 minutes for the American speaker and 20 minutes for the Chinese speaker in each session and to use the remainder of the session time for discussion. We think that the sessions will be informative and valuable. We find that informal discussions that occur during tea breaks and over meals are valuable, too, both in building relationships and exploring ideas from the formal sessions. NAS would be pleased to host a lunch, a banquet, or a reception to provide more time for these interactions.

**Sunday, September 27, 2015** American participants arrive in Beijing,  
 Lodging at Intercontinental Hotel Bei Chen

**Monday, September 28, 2015** Meeting on Human Gene Editing, CAS, 09.00-12.00

[See Separate Agenda]

**Tuesday, September 29, 2015** Institute of Microbiology, CAS

8:30-9:00 Participants arrive at meeting location

9:00-9:15 Introductory remarks by CAS and NAS leadership

9:15-10:30 **Session I: The “Safety-Security-Regulation-Progress” Conundrum:**  
*This session will touch on issues associated with high-containment labs globally, but focus on policy issues that are particular to labs in the United States and China. High containment laboratories are being created for a variety of purposes including: human health/public health, animal health/agriculture, basic research (including synthetic biology), product development, test and evaluation, and security/forensics. High containment laboratories are managed primarily by governments, including health, agriculture, defense, and other ministries, but also in some cases by academia and commercial industry. The proliferation of high containment laboratories underscores the importance of developing a biological risk management approach that facilitates research and public health missions while enhancing biological safety and laboratory biological security in both new and existing facilities. The speakers will outline Chinese and U.S. issues related to the balance between safety, security, and progress. Speakers will introduce the concept of achieving a balance between safety, regulation, and advancing life science research on dangerous pathogens.*

Session ~~Chair/Moderator~~ TBD

American Speaker: **David Franz**, “Finding the Balance Among Safety, Security, Regulation, and Progress: The U.S. Experience”

Chinese Speaker: **Qiang Wei**, [Title to be announced]

Discussion

10:30-11:00 Tea Break

11:00-12:00 **Session II: Influenza**

*Seasonal influenza remains a major cause of morbidity and mortality worldwide annually and the specter of pandemic flu remains with us. There has been a great deal of excellent basic and applied viral research conducted both in China and the United States in recent years. This session will touch on issues associated with the virus, the disease load in both our countries and the enormous strides being made to both understand viral pathogenesis and develop medical countermeasures.*

Session Chair/Moderator: TBD

Chinese Speaker: **Jinhua Liu** and **Yi Shi**, [Title to be announced]

American Speaker: **Peter Palese**, "Influenza: Paths to a Better Vaccine?"

Discussion

12:00-13:30 Lunch

**13:30-14:30 Session III: Ebola**

*Ebola, once a disease of the African bush, occasionally jumping from animals to a few humans, demonstrated itself as a powerful and devastating force in urban West Africa in the last year. Both China and the United States—while little impacted directly—provided support to the region and continue to assist even after the outbreak has been mostly contained. This session will touch on issues associated with the virus, the outbreak, and the way ahead as we work to prepare for this virus and others globally.*

Session Chair/Moderator: TBD

American Speaker: **Thomas Ksiazek**, "Ebola: Sustainable Austere Environment Laboratories"

Chinese Speaker: **Wuchun Cao** and **Di Liu**, [Title to be announced]

Discussion

**14:30-15:30 Session IV: Middle East Respiratory Syndrome (MERS)**

*The etiology of Middle East Respiratory Syndrome, like that of the Ebola outbreak is a zoonotic virus. Emerging initially in Saudi Arabia, MERS, unlike Ebola has found a significant foothold geographically outside the region of emergence. This session will touch on issues associated with understanding the virus, its pathogenesis, and the implications for dealing with the outbreak, developing medical countermeasures, and preparation for the unknown future.*

Session Chair/Moderator: TBD

American Speaker: **Ralph Baric**, "MERS: Genetic Systems and Models"

Chinese Speaker: **Wenjie Tan** and **Deyin Guo**, [Title to be announced]

Discussion

15:30-16:00 Tea Break

**16:00-17:15 Session V: Gain of Function Research**

*The new tools of molecular biology and genetics, now globally available, have made what only nature could do, typically slowly, attainable in the laboratory in days or weeks. While the tools will greatly enhance our ability to both understand disease and develop countermeasures, they could also be used for great harm, either accidentally or intentionally. This session will touch on issues associated with gain of function (GoF) research and policy in both our countries and give us an opportunity to share thoughts and ideas regarding the way ahead. Is there research that is too dangerous to undertake? Will we know it when we see it and how can we balance a sometimes only partially understood risk with the benefit that might come from such work?*

Session Chair/Moderator: TBD

Chinese Speaker: **Cheng Cao**, [Title to be announced]

American Speaker: **David Franz** and **James Le Duc**, "NAS Gain-of-Function Meeting Report (The scientists' view)"  
Discussion

17:15-17:30 Review of Day 1 and plan for Day 2

17:30 Meeting adjourn for day

18:00 Dinner (Banquet?)

### Wednesday, September 30

9:00-10:30 **Session VI: High-Containment Labs...Safe, Secure, Productive, and Sustainable**

*This session will discuss the need for high containment laboratories; construction and maintenance costs; laboratory safety and security issues; environmental risks; training; community relations; what to do in a crisis; and emerging technology in biology. The importance of laboratory leadership and a healthy social culture may also be addressed.*

Session Chair/Moderator: TBD

Chinese Speaker: **Zhiming Yuan**, [Title to be announced]

American Speaker: **James Le Duc**, "High Containment Laboratories: Putting the pieces of laboratory safety and global health security together"

10:30-11:00 Tea Break

11:00-12:00 **Session VII: Roundtable discussion of themes from discussions in earlier sessions**

[Description of session]

Session Chair/Moderator: TBD

Discussion

12:00-13:30 Lunch

13:30-15:00 **Session VIII: Areas for Enhanced Cooperation**

*This session will focus on the goal of establishing collaborative partnerships. Discussion topics could include initiation/planning of additional academies-hosted workshops, bilateral or regional, addressing issues and policy challenges specific to containment laboratories and infectious disease research more broadly and improving the functionality and utility of biosafety associations. The session could also address joint training, student exchange or collaborative preparation for emerging disease outbreak response or public, government, industry and academia education about laboratory safety, security and responsible life-sciences research.*

Session Chair/Moderator: TBD

American Speaker: **Diane Griffin**, "Possible roles for CAS and NAS in Enhancing Cooperation on these topics"

Chinese Speaker: **George F Gao**, [Title to be announced]

Discussion

15:00-15:30 Closing Remarks from CAS and NAS leadership

15:30 Meeting adjourn

### Thursday, October 1, 2015

American participants depart Beijing

## DRAFT AGENDA

Chinese Academy of Sciences-National Academies of Sciences and Medicine  
Responsible Research on Human Gene Editing  
Meeting Monday, 28 September 2015  
09.00-12.00  
Location: Meeting Room E201, CAS Institute of Microbiology  
Working language: English

**NOTE TO CAS:** This is a draft agenda subject to CAS amendment and mutual agreement. We propose to have informal discussion around structured topics in each session. If CAS participants wish to present formal remarks, we will be interested to listen and we would like to ensure that we have enough time to discuss those remarks. Furthermore, we think that the sessions will be informative and valuable. We find that informal discussions that occur during tea breaks and over meals are valuable, too, both in building relationships and exploring ideas from the formal sessions. NAS would be pleased to host a lunch or a reception, if that is appropriate.

NAS Participants: Vice President **Diane Griffin**, Prof. **Ralph Baric**, Dr. **David Franz**, Dr. **Thomas Ksiazek**, Prof. **James Le Duc**, Prof. **Peter Palese**, and Mr. **Ben Rusek**.

CAS participants: Vice President, Prof. **Zhang Yaping** (molecular genetics), Prof. **Xu Zhihong** (plant biology and scientific ethics), Profs. **Pei Duanqing** and **Zhou Qi** (stem cell), Prof. **Zhao Guoping** (synthetic biology and bioethics), Prof. **Li Zhenzhen** (scientific morality and ethics), Profs. **Gao Fu** and **Xue Yongbiao**.

Objectives: Vice President **Griffin** and her colleagues will provide an update on activities and substantive issues in the NAS-NAM initiative on human genome editing and will seek input from Chinese experts on these topics. Using the topics listed on the agenda as starting points, the participants will engage in an informal moderated discussion of these topics.

09.00-09.15	Welcome ( <b>Zhang</b> ) and introductions
09.15-09.30	Overview of the goals for the discussion ( <b>Xu, Griffin</b> )
09.30-10.00	Update on the status of planning for the gene-editing initiative, including an overview of each of the topic areas ( <b>Griffin</b> with additional comments from <b>Pei</b> )
10.00-10.30	Discussion of the current state of the science and available technologies for gene editing; the range and diversity of users of this technology and the diversity of the research being conducted. (moderated by <b>Xu</b> )
10.30-10.45	Tea break
10.45-11.15	Discussion of the rationale(s), potential benefits and risks inherent in conducting human genome editing research and in potential applications; (moderated by <b>Xu</b> )
11.15-11.45	Discussion of existing and potentially needed regulatory principles, standards, or guidance for such research and potential applications; ethical concerns; legal considerations. (moderated by <b>Xu</b> )
11.45-12.00	Next steps, including critical stakeholders and how to engage them.
12.00	Adjourn
12.30	Lunch hosted by VP <b>Zhang</b>

---

**From:** Rusek, Benjamin [BRusek@nas.edu]  
**Sent:** 9/17/2015 10:29:30 AM  
**To:** 'Dave Franz' [davidrf Franz@gmail.com]; 'Baric, Ralph S' [rbaric@email.unc.edu]; 'Diane Griffin' [dgriffi6@jhu.edu]; Ksiazek, Thomas G. [tgksiaze@UTMB.EDU]; 'Palese, Peter' [peter.palese@mssm.edu]  
**CC:** (b)(6) 'Baric, Toni C' [antoinette\_baric@med.unc.edu]; Lowenthal, Micah [mlowenth@nas.edu]; LeDuc, James W. [jwleduc@UTMB.EDU]; Ahearn, John [JAhearn@nas.edu]  
**Subject:** RE: Final China Bio Mtng Conf Call  
**Attachments:** NAS-CAS human gene editing meeting DRAFT AGENDA - revised by CAS 9-8-15.docx; CAS-NAS Workshop Scientific Program.docx; DRAFT China Meeting Travel Memo Sept 2015 v1.docx

Greetings,

We are scheduled to have a one hour call on **Monday, September 21 at 4:00 p.m. ET** to discuss the upcoming meetings in Beijing. The conference call in number is: **1-888-537-7715**, please enter participation code **12223052#** when prompted

The agenda for the call is:

1. Introduction (Franz)
2. Travel memo and logistics (Rusek)
3. Gene editing meeting agenda (Griffin)
4. CAS NAS meeting agenda (Franz)
5. Other issues and questions

I have attached the draft agenda for the gene editing meeting on the 28<sup>th</sup> and the latest agenda for the CAS NAS meetings on the 29<sup>th</sup> and 30<sup>th</sup>.

I have also attached the draft travel memo for your information. Please check over your flight arrival and departure times and let us know if you have any questions or comments. I will bring hard copies of the memo but please print it out and bring it with you on the plane for reference.

FYI after the meeting ends on Sept 30 Dave, Diane and I will go by car to the U.S. Embassy to debrief Nancy Sung from NSF and other USG and U.S. Embassy Staff. Others are welcome to join the debrief, if you would like to go please let me know so I can pass your info on to U.S. Embassy security.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** Rusek, Benjamin  
**Sent:** Wednesday, September 09, 2015 11:12 AM  
**To:** Ahearn, John; 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'  
**Cc:** (b)(6) 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah  
**Subject:** RE: Final China Bio Mtng Conf Call

Greetings,

FYI we will send out a detailed travel memo and a conference call agenda (with call in information) a few days before the one hour call on the 21st.

If you complete your slides or talk before the call please do send them to the group so I can forward presentations to CAS for translation. We can also discuss presentations during the conference call.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** Ahearn, John

**Sent:** Wednesday, September 09, 2015 10:50 AM

**To:** Rusek, Benjamin; 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'

**Cc:** (b)(6); 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah

**Subject:** RE: Final China Bio Mtng Conf Call

All,

We have set the Conference Call for Monday, September 21 at 4:00 p.m. ET. Please advise if there are any problems with this time. Many of you have had to adjust in order to make this time work and we appreciate that.

Thank you!

John Ahearn  
Senior Program Assistant  
Committee on International Security and Arms Control  
Policy and Global Affairs Division  
The National Research Council  
National Academy of Sciences, Engineering and Medicine

500 Fifth Street, NW  
Keck Center – WS 500  
Washington, DC 20001  
T: 202.334.2239 | E: [jahearn@nas.edu](mailto:jahearn@nas.edu)  
W: [www.national-academies.org](http://www.national-academies.org)

*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE

---

**From:** Rusek, Benjamin

**Sent:** Tuesday, September 01, 2015 5:33 PM

**To:** 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'

**Cc:** (b)(6); 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah; Ahearn, John

**Subject:** Final China Bio Mtng Conf Call

**Importance:** High

Greetings,

I have returned from my 明德大学中文 adventure. Thank you for all your work to move this project forward over the summer.

We are now in the final stages of planning for the upcoming "CAS-NAS Responsible Research on Human Gene Editing Meeting" and the "China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security" set to take place on September 28,29,30 in Beijing, China. Thank you for agreeing to participate and speak at the meeting. I have attached slightly updated draft agendas to remind you about the speaking responsibilities during the week and have highlighted a few points that we might want to address. I also hope to hear from CAS soon about their thoughts on the agendas and will send you their



comments when I have them. I am also working to schedule a briefing for interested USG experts while we are in Beijing.

We plan to have a final conference call before the trip. **Please send John Ahearn (cced) your availability to participate in a one hour call on either September 16,17,18 or 21.**

Please also plan to provide your slides to the group before the call. We will discuss the final agendas, presentations, and the travel details during the call. The final agendas and a comprehensive travel memo will be circulated before the call.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** Rusek, Benjamin  
**Sent:** Friday, August 28, 2015 6:40 PM  
**To:** 'Dave Franz'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'; 'Palese, Peter'  
**Cc:** (b)(6); 'Baric, Toni C'; 'Mendoza, Imelda'; Lowenthal, Micah; Ahearn, John  
**Subject:** RE: China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

Greetings,

A CISAC member sent us a few articles related to CRISPER-cas9 that you might find informative. I have attached the following articles for your information.

1. Novel techniques for the prevention of mitochondrial DNA disorders: an ethical review, Nuffield Council on Bioethics
2. A prudent path forward for genomic engineering and germline gene modification, Baltimore et al.
3. What If Extinction Is Not Forever, Sherkow and Greely
4. Brave New Genome, Lander
5. Don't edit the human germ line, Lanphier et al.
6. CRISPR germline engineering—the community speaks, Bosley et al.

We might even want to send these to the CAS experts we will meet with in advance of the September 28 meeting.

PS The first round of visas for were processed and went out via Fed Ex. Leduc, Ksiazek and Baric should get passports back today.

Kind regards,

Benjamin J. Rusek  
U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** Ahearn, John  
**Sent:** Tuesday, June 30, 2015 3:32 PM  
**To:** 'Dave Franz'; 'Berkelman, Ruth L'; Baric, Ralph S; 'Diane Griffin'; 'Ksiazek, Thomas G.'; 'LeDuc, James W.'  
**Cc:** (b)(6); 'Baric, Toni C'; 'Mendoza, Imelda'; 'Palese, Peter'; Lowenthal, Micah; Rusek, Benjamin  
**Subject:** China Biosafety Mtng Conf Call: Wed, July 8 at 2:30pm EDT

All,

As discussed, Dave Franz and Micah Lowenthal request that you join a conference call on July 8 at 2:30 p.m. EDT to discuss the September 29-30 biosafety meeting in Beijing. The call should be about one hour, but we'll allow 90 minutes in case additional time is needed.

The dial-in information for the call is:

Toll free: 888-537-7715

Access code: 12223052#

Micah will send an agenda for the call in a later e-mail. Please let me know if you have any questions.

Thank you.

John Ahearn  
Senior Program Assistant  
Committee on International Security and Arms Control  
Policy and Global Affairs Division  
The National Research Council  
National Academy of Sciences

-----  
500 Fifth Street, NW  
Keck Center – WS 500  
Washington, DC 20001  
T: 202.334.2239 | E: [jahearn@nas.edu](mailto:jahearn@nas.edu)  
W: [www.national-academies.org](http://www.national-academies.org)

**THE NATIONAL ACADEMIES**  
*Advisers to the Nation on Science, Engineering, and Medicine*



## DRAFT AGENDA

Chinese Academy of Sciences-National Academies of Sciences and Medicine  
Responsible Research on Human Gene Editing  
Meeting Monday, 28 September 2015  
09.00-12.00  
Location: Meeting Room E201, CAS Institute of Microbiology  
Working language: English

**NOTE TO CAS:** This is a draft agenda subject to CAS amendment and mutual agreement. We propose to have informal discussion around structured topics in each session. If CAS participants wish to present formal remarks, we will be interested to listen and we would like to ensure that we have enough time to discuss those remarks. Furthermore, we think that the sessions will be informative and valuable. We find that informal discussions that occur during tea breaks and over meals are valuable, too, both in building relationships and exploring ideas from the formal sessions. NAS would be pleased to host a lunch or a reception, if that is appropriate.

NAS Participants: Vice President **Diane Griffin**, Prof. **Ralph Baric**, Dr. **David Franz**, Dr. **Thomas Ksiazek**, Prof. **James Le Duc**, Prof. **Peter Palese**, and Mr. **Ben Rusek**.

CAS participants: Vice President, Prof. **Zhang Yaping** (molecular genetics), Prof. **Xu Zhihong** (plant biology and scientific ethics), Profs. **Pei Duanqing** and **Zhou Qi** (stem cell), Prof. **Zhao Guoping** (synthetic biology and bioethics), Prof. **Li Zhenzhen** (scientific morality and ethics), Prof. **Zhai Xiaomei**, Profs. **Gao Fu** and **Xue Yongbiao**.

Objectives: Vice President **Griffin** and her colleagues will provide an update on activities and substantive issues in the NAS-NAM initiative on human genome editing and will seek input from Chinese experts on these topics. Using the topics listed on the agenda as starting points, the participants will engage in an informal moderated discussion of these topics.

- 09.00-09.15 Welcome (**Zhang**) and introductions
- 09.15-09.30 Overview of the goals for the discussion (**Xu, Griffin**)
- 09.30-10.00 Update on the status of planning for the gene-editing initiative, including an overview of each of the topic areas (**Griffin** with additional comments from **Pei**)
- 10.00-10.30 Discussion of the current state of the science and available technologies for gene editing; the range and diversity of users of this technology and the diversity of the research being conducted. (moderated by **Xu**)
- 10.30-10.45 Tea break
- 10.45-11.15 Discussion of the rationale(s), potential benefits and risks inherent in conducting human genome editing research and in potential applications; (moderated by **Xu**)
- 11.15-11.45 Discussion of existing and potentially needed regulatory principles, standards, or guidance for such research and potential applications; ethical concerns; legal considerations. (moderated by **Xu**)
- 11.45-12.00 Next steps, including critical stakeholders and how to engage them.
- 12.00 Adjourn
- 12.30 Lunch hosted by VP **Zhang** (venue: Quanjude Roast Duck Restaurant – Olympic Village)

**CAS-NAS Workshop 2015  
Challenges of Emerging Infections,  
Laboratory Safety, and Global Health Security  
Scientific Program**

E301, Institute of Microbiology, CAS  
NO.1 West Beichen Road, Chaoyang District, Beijing

Sep. 29, 2015 AM

08:30-09:00

## Registration

09:00-09:15

Opening Remarks    Chair: George Fu Gao  
Honored Guest: Yaping Zhang & Diane Griffin

09:15-10:30

Session I Chair : George Fu Gao  
The “Safety-Security-Regulation-Progress” Conundrum

### 1.American Speaker

David Franz

## Finding the Balance Among Safety, Security, Regulation, and Progress: The U.S. Experience

## 2.Chinese Speaker

Qiang Wei

## Progress of Laboratory Biosafety Management in China

## Panel Lists

David Franz, Qiang Wei, Diane Griffin &amp; George Fu Gao

10:30-11:00

Tea break, group photo

11:00-12:30

Session II   Chairs: Peter Palese & Yuelong Shu  
Influenza

### 1.American Speaker

Peter Palese

## Influenza: Paths to a Better Vaccine?

## 2.Chinese Speaker

Yuelong Shu

## Genetic tuning of avian influenza A (H7N9) virus promotes viral fitness within different species

### 3.Chinese Speaker

Jinhua Liu

## Comparative risk analysis of the novel 2.3.4.4 clade highly pathogenic H5 avian influenza viruses in mammals

#### 4.Chinese Speaker

Yi Shi

## “Host jump” of avian flu

## Panel Lists

Peter Palese, Yuelong Shu, Jinhua Liu &amp; Yi Shi

12:30-13:30

Lunch

Sep. 29, 2015 PM

13:30-15:00	Session III Chairs : Thomas Ksiazek & Wuchun Cao Ebola and beyond	
1.American Speaker	Thomas Ksiazek	Ebola: Sustainable Austere Environment Laboratories
2.Chinese Speaker	Wuchun Cao	Emerging Tick-borne Infections in China: An Increasing Public Health Threat
3.Chinese Speaker	Di Liu	Intra-host dynamics of Ebola virus
4.Chinese Speaker	Yigang Tong	Genetic diversity and evolutionary dynamics of Ebola virus in Sierra Leone
Panel Lists	Thomas Ksiazek, George Fu Gao, Wuchun Cao, Di Liu & Yigang Tong	
15:00-16:30	Tea Break	
16:30-18:00	Session IV Chairs : Ralph Baric & Wenjie Tan Middle East Respiratory Syndrome	
1.American Speaker	Ralph Baric	MERS: Genetic Systems and Models
2.Chinese Speaker	Zhengli Shi	Bat coronaviruses associated with human diseases
3.Chinese Speaker	Wenjie Tan	MERS-CoV vaccine development: Test in China CDC
4.Chinese Speaker	Deyin Guo	Development of broad-spectrum inhibitors by targeting coronavirus methyltransferases
Panel Lists	Ralph Baric, George Fu Gao, Zhengli Shi, Wenjie Tan & Deyin Guo	
18:00-18:30	Review of whole day and plan for next day Chair : George Fu Gao	
18:30-20:00	Dinner	

Sep. 30, 2015 AM

09:00-10:00	Session V	Chair : David Franz & Jinhua Liu
	Gain of Function Research	

1.American Speaker	David Franz	NAS Gain-of-Function Meeting Report (The scientists' view)
--------------------	-------------	--

2.Chinese Speaker	Jinhua Liu	TBA
-------------------	------------	-----

Panel Lists	David Franz, Jinhua Liu & Wenjun Liu
-------------	--------------------------------------

10:00-10:30	Tea Break
-------------	-----------

10:30-12:00	Session VI	Chair : Thomas Ksiazek & Zhiming Yuan
	High-Containment Labs...Safe, Secure, Productive, and Sustainable	

1.American Speaker	Thomas Ksiazek	High Containment Laboratories: Putting the pieces of laboratory safety and global health security together
--------------------	----------------	--

2.Chinese Speaker	Zhiming Yuan	Biosafety management of high-level biosafety laboratory for emerging disease control
-------------------	--------------	--

3.Chinese Speaker	Mifang Liang	laboratory risk assessment for responding to emerging infectious disease
-------------------	--------------	--

Panel Lists	Thomas Ksiazek, Zhiming Yuan, Mifang Liang & Qiang Wei
-------------	--

12:00-13:30	Lunch
-------------	-------

Sep. 30, 2015 PM

13:30-15:00	Session VII	Chair : Diane Griffin & George Fu Gao
	Roundtable discussion and Areas for Enhanced Cooperation	

1.American Speaker	Diane Griffin	Possible roles for CAS and NAS in Enhancing Cooperation on these topics
--------------------	---------------	---

2.Chinese Speaker	George Fu Gao	Global health & China's role
-------------------	---------------	------------------------------

Panel Lists	Diane Griffin, George Fu Gao, Deyin Guo & Zhengli Shi
-------------	---

15:00-15:30	Closing Remarks	Chair : George Fu Gao
-------------	-----------------	-----------------------

**Organized by:** Chinese Academy of Sciences  
The National Academies of Sciences,  
Engineering, and Medicine



The National Academies of  
SCIENCES • ENGINEERING • MEDICINE

**Co-organized by:** Beijing Institutes of Life Science, CAS  
The Institute of Microbiology, CAS



**TRAVEL MEMORANDUM**

Beijing Travelers

John Ahearn

**SUBJECT:** Travel Information for the China Bio Trip to Beijing, September 26 – October 1**ARRIVALS\***

Traveler	Flight to PEK	Arrival in PEK	Ticket number	Hotel Nights
Franz, David	(b)(6)			
Palese, Peter				
Griffin, Diane				
Rusek, Ben				
Ksiazek, Thomas				
Baric, Ralph				

\*If for some reason you are delayed or rerouted onto another flight, please e-mail or text Ben Rusek (brusek@nas.edu 001-202-365-6082) and let him know your new flight information.

**IMMIGRATION AND CUSTOMS PROCEDURES**

While on the plane, you will receive a landing card to complete. After departing the plane, you will pass through immigration, following the signs for foreign citizens. The immigration officer will check your passport and visa. You will then collect your luggage. After you have your bags, you will go through customs. You should select the "GREEN" channel if you have nothing to declare. If you go through the Green channel, you will not be asked to complete a Baggage Declaration Form.

**GROUND TRANSPORTATION TO HOTEL**

Upon arrival in Beijing, you will be met at the airport by a driver and an English-speaking volunteer from CAS. They will be holding a sign with your name written in English or "NAS" and will take you to the **InterContinental Hotel Beijing Beichen** 北京北辰洲際酒店 (see address below) where you will stay while in Beijing. You may have to take a second look, but the driver will be there. Should your flight be delayed, a driver will wait for you.

If you cannot find the driver after having thoroughly looked for the sign with your name, please take an OFFICIAL TAXI ONLY (do not take a taxi van) to the InterContinental Hotel Beijing Beichen 北京北辰洲際酒店 (see address below). The airport taxi stand is well marked after you leave the customs and immigration part of the airport, enter on the right. The cost of a taxi ride to the hotel is approximately \$25 or RMB 140-160 ¥ (the Chinese currency is the Renminbi, abbreviated RMB, and the unit is the Yuan, abbreviated as ¥ or CNY), which includes the extra highway fee of 10 ¥/car. You can use the ATMs or exchange offices at the airport. There are several ATMs that accept American debit/credit cards in the terminal (An Agricultural Bank of China ATM is right outside of the customs exit). Please ask for a receipt from the driver as you will need it for reimbursement. It is not customary to tip the drivers. Please pay by the meter in the taxi. DO NOT ACCEPT offers from unofficial drivers under any circumstances.

**EMERGENCY CONTACT NUMBERS****Ben Rusek**, traveling to Beijing**Rita Guenther**, in Washington, D.C.**John Ahearn**, in Washington, D.C.**Omega after Hours Emergency Assistance****U.S. Embassy in China****U.S. Cell Phone (phone and data in China):** [REDACTED]**U.S. Cell Phone:** [REDACTED]**U.S. Office Phone:** +1-202-334-2239**866-740-0627 - I.D. CODE S-6CE1-NAS PGA**

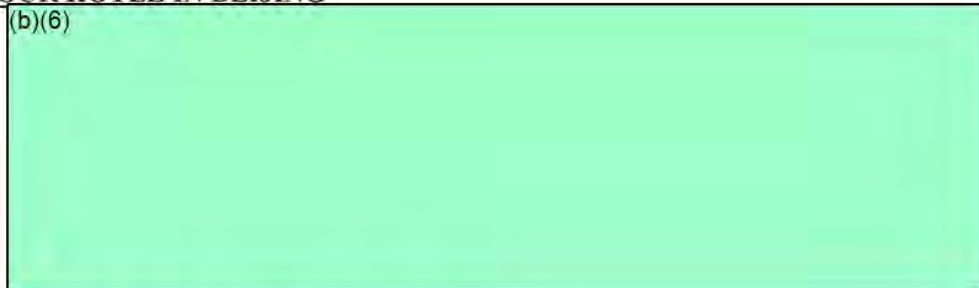
(NAS Travel Code (b)(6) [REDACTED])

**010-8531 4000 (in China)**

[ PAGE \\* MERGEFORMAT ]

### YOUR HOTEL IN BEIJING

(b)(6)



SEE MAP AT THE END OF THIS MEMO

(b)(6)	Hotel confirmation #	
Traveler	Confirmation #	
Baric, Ralph	(b)(6)	
Franz, David		
Griffin, Diane		
Ksiazek, Thomas		
Palese, Peter		
Rusek, Ben		

### MEETING LOCATION

The meeting sessions will be held at the **Institute of Microbiology, Chinese Academy of Science (CAS)**

SEE MAP AT THE END OF THIS MEMO

### MEALS

Most lunches and dinners will be provided. We will reimburse reasonable expenses for other meals.

### DEPARTURE INFORMATION

We will arrange drivers or taxis to take you from the hotel to the airport on October 1. Please confirm your departure details with Ben at least one day prior to your departure.

### DEPARTURES

Traveler	Flight from PEK	Departure from PEK	Ticket number	Phone number
Ksiazek, Thomas	(b)(6)			
Rusek, Ben				
Franz, David				
Palese, Peter				
Baric, Ralph				
Griffin, Diane				

### TRAVEL TIPS

Getting around



The Beijing subway is modern and usually (due to traffic) the fastest transportation in the city. There are 17 subway lines plus one airport express line. The price of the subway is 2 ¥ regardless of the distance and transfers between lines. The stops are announced in both Chinese and English. See the map at the end of this memo for the stops closest to the hotel). For more information on the subway see:

[ HYPERLINK "<http://www.travelchinaguide.com/cityguides/beijing/transportation/subway.htm>" ]

If for some reason you need a car while in Beijing, you may request a car at the hotel front desk. Please arrange for payment directly with the hotel or with the car and driver service. Taxis can also be arranged through the front desk, it is helpful to have the hotel concierge write your destination in Chinese for the driver.

### **What to Pack**

The weather will likely be sunny or partly cloudy ranging from 13C to 24C (mid-fifties to mid-seventies F). We will begin with business attire (coat and tie) and hope that it becomes less formal as the meeting proceeds.

Be sure to bring any medications or other items you will need, preferably in a carry-on just in case your luggage is delayed.

A list of useful items includes: plenty of business cards, a travel alarm clock, a small flashlight, pocket-packs of tissues and wetwipes, cold medication, Imodium, a camera and chapstick. It is best not to bring anything that would be an attractive target for thieves, such as expensive camera equipment. As discussed you will have to decide whether to bring a laptop computer. If you do bring one, it is generally a good idea to keep it with you at all times.

### **Money**

You will probably want to obtain some Chinese money of your own for souvenir shopping, drinks, entertainment, and sightseeing. The exchange rate on 13 September 2015 was 6.37 Yuan per dollar. Please bring cash, ATM, or credit cards (not traveler's checks). ATM machines with English language instructions are available at the airport and may be available at the hotel. Some shops and restaurants will accept credit cards, and it's always good to have one with you in case of emergency, but you should not rely on being able to use credit cards for all your purchases. Even some businesses that say that they take credit cards only take Chinese network credit cards (not Visa, M/C, or Amex). Traveler's checks are much less useful and very inconvenient – only a few banks in China will change them – so we do not recommend that you bring them.

Be sure to bring (and get) clean, new cash – worn, stained, marked, or old bills are often rejected in China. An assortment of denominations is useful, since you might not always be able to change large bills.

### **Health Concerns**

Drinking tap water in China is not recommended. Please drink bottled water wherever possible.

Breathing the air in Beijing is also not recommended, but unfortunately it is not optional. The air quality in Beijing is very poor and can affect your health. The U.S. Embassy has an air-quality monitor onsite and posts twitter updates of the readings ([ HYPERLINK "<https://twitter.com/beijingair>" ]). The daytime high on 16 September 2015 was PM2.5; 85.0; 166; which is categorized as Unhealthy. Our meetings will be indoors. For your free time, please consider the air quality before you decide to go jogging or hike around the city or up stairways in the historic monuments (the Drum Tower and the Bell Tower, for example).

### **Medical Insurance for Travelers**

Travelers being funded by NAS have been placed on the NAS SOS Insurance ([ HYPERLINK "<http://www.internationalsos.com/en/>" ]<sub>1</sub> policy number 11BMMS000238) account while in Beijing. For medical

[ PAGE \\* MERGEFORMAT ]

emergencies anywhere in mainland China, Americans can call the SOS International, Ltd., 24-hour "Alarm Center" in Beijing at (86-10) 6462-9100 or in Shanghai at (86-21) 6295-0099 for advice and referrals to local facilities. SOS International Alarm Centers can also be contacted in Hong Kong at (852) 2428-9900 and in the United States at (215) 245-4707. NAS also purchases Ambassador Insurance (policy number GTP 0009133213) for all travelers. Ben has insurance cards for each traveler.

### **Medical Care in Beijing**

Beijing United Family Hospital and Clinics ("BJU")  
Tel.: (8610) 64333960/1/2/3/4/5 (24-hour service)  
Fax: (8610) 64333963

BJU is the first and remains the only foreign-invested full service international standard 50-bed hospital operating in Beijing.

Their facilities include:

Bayley & Jackson Beijing Medical Center  
#7 Ritan Dong Lu  
Chaoyang District, Beijing 100020  
(8610) 8562-9998  
Fax: (8610) 8561-4866  
email: [info@bjhealthcare.com](mailto:info@bjhealthcare.com)  
Website: [www.bjhealthcare.com](http://www.bjhealthcare.com)

Fax: (8610) 6433-3963  
Emergency Hotline: (8610) 6433-2345  
Website: [www.bjunitied.com.cn](http://www.bjunitied.com.cn)

Beijing United Family Hospital and Clinics  
#2 Jiang Tai Lu  
Chaoyang District, Beijing 100016  
(8610) 6433-3960

Peking Union Medical Hospital  
1 Shuai Fu Yuan  
Dong Cheng District, Beijing 100730  
Tel: 86-10-6529-5269 (registration and information)  
86-10-6529-5284 (24 hours)  
86-10-6529-6114 (operator)  
Modern Facilities with English speaking staff.  
Separate ward for foreign patients.

Additional information on medical providers specializing in treating foreigners for general medical, dental and orthodontic problems are available at <http://www.usembassy-china.org.cn/>.

Information on vaccinations and other health precautions, such as safe food and water precautions and insect bite protection, may be obtained from the Centers for Disease Control and Prevention's hotline for international travelers at 1-877-FYI-TRIP (1-877-394-8747) or via the CDC's Internet site at <http://www.cdc.gov/travel>. For information about outbreaks of infectious diseases abroad consult the World Health Organization's (WHO) website at <http://www.who.int/en>. Further health information for travelers is available at <http://www.who.int/ith>.

### **REIMBURSEMENT INFORMATION**

For travel being funded by NAS, after you return to the United States, you will use an electronic Travel Expense Report (eTER) to request reimbursement for reasonable travel expenses, including:

- **Taxi cabs, shuttles, and public transportation expenses for meeting related trips are reimbursable.** *Sedan services are only reimbursable if the cost is comparable to a taxi fare.*
- **Meal costs** (based on actual expenses; Alcohol cannot be reimburse by NAS).
- **Incidental expenses**

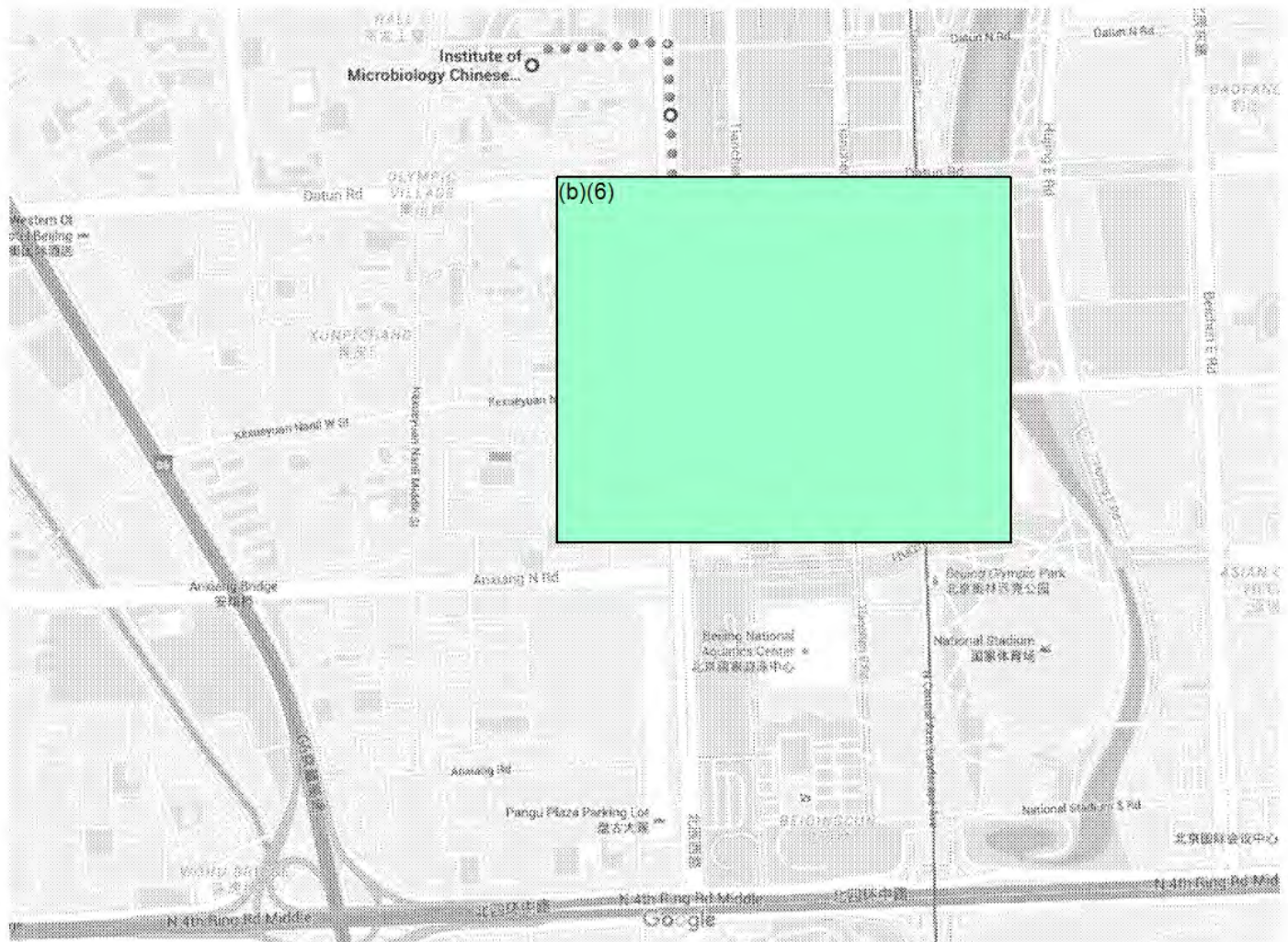
Please retain all receipts for any expenses over \$75 incurred during travel on Academy business, including original airline receipts, even if they were direct billed to NAS. No charges over \$75 can be reimbursed without an accompanying

[ PAGE \\* MERGEFORMAT ]



receipt. This includes items such as airfare, taxi charges, and meals as described above. TERs should be submitted within 30 days of completion of travel. The Travel code for this trip is **PGA 150188**.

**Hotel location (red point), location of CAS and map of Olympic Green metro station east of the hotel**



[ PAGE \\* MERGEFORMAT ]

**Produced in Native**

**Produced in Native**

December 7, 2015

Weaver lab personnel for all NOUs:

Scott Weaver, PhD

Thirty-three years experience working at BSL-2 and BSL-3 with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, rodent, avian and mosquito infections.

Jonathan Auguste, Ph.D. Two years experience working at BSL-2 and BSL-3 with arboviruses including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, rodent and mosquito infections.

Nicholas Bergren, B.S. Four years experience working at BSL-2 and BSL-3 with arboviruses including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, rodent and mosquito infections.

Rubing Chen, Ph.D.

Five years experience working at BSL-2 and two years at BSL-3 with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, and has begun training on mosquito infections.

Jesse Erasmus, B.S.

Two years BSL2 experience and currently training at BSL3 with with arboviruses including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, rodent mosquito infections.

Naomi Forrester, Ph.D.

Six years experience working at BSL-2 and BSL-3 with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation, rodent and mosquito infections.

Mathilde Guerbois, Ph.D.

Five years experience working at BSL-2 and two years at BSL-3 with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, and has begun training on mosquito infections.

Jing Huang

Eight years experience working at BSL2 and BSL3 with arboviruses including mosquito infections and virus assays.

Rose Langsjoen, B.S.

Three years BSL2 and BSL3 experience with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, and rodent infections. Completing ABSL-3 training.

Grace Leal

Five years experience working at BSL-2 and BSL-3 with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, and virus stock preparation, and mosquito infections.

Huanle Luo, Ph.D.

Before joining UTMB, Dr. Luo had about 5 years of research experience with BL2 agents. From 2008-2010, she worked as a student researcher to study Enterovirus 71 infection in human 293T cells and 293 cells at Wuhan Institute of Virology, Research Group of zoonotic disease in China. From 2011-2013, her work has involved Sendai virus infection and human Bocavirus gene transfection in 293T cells or 293 cells at Wuhan Institute of Virology, Research Group of zoonotic disease in China. Since joining UTMB as a Postdoc Fellow in Dr. Tian Wang's lab in 2013, Dr. Luo has about 2 years of BSL3 experience working on murine cell culture and animal models of West Nile virus.

Anthony Muruato, B.S.

Farooq Nasar, MPH

Five years experience working at BSL-2 and two years experience at BSL-3 with viruses including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation, and animal infections, and has begun training on mosquito infections.

Shannan Rossi, Ph.D.

Seven-Fifteen years experience working at BSL-2 and, thirteen years of BSL-3 experience and has received 20 hours of mentorship in the BSL-4. Has experience with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation, and purification. Has ten years of experience working in ABSL-3 with vertebrates including mice, rats, rabbits, sparrows and primates, and has begun training on mosquito infections.

Christopher Roundy, M.S.P.H.

Robert Seymour, M.D., Ph.D.

Five years experience working at BSL-2 and BSL-3 with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation. Also mouse infections.

Eryu Wang, MD, PhD

Thirteen years experience working at BSL-2 and BSL-3 with arboviruses and human serum, including cell culture passages and assays, serological tests such as ELISA and plaque reduction neutralization, virus stock preparation and virus purification using centrifugation, mosquito and rodent infections.

Tian Wang, PhD

Fifteen years of BSL3 experience working on murine/human cell culture and animal models of West Nile virus (WNV). Before joining UTMB in 2008, she was certified to perform WNV cell culture and animal work at CT agricultural experiment station (2000-2001), Yale University (2001-2005) and Colorado State University (2005-2008). She has been certified to perform WNV cell culture and animal work at UTMB since 2009. Dr. Wang has trained more than 20 researchers to perform WNV work at the BSL3 facilities at UTMB and the institutions where she previously worked.

Ruimei Yun, B.S.

Three years experience working at BSL-2 and BSL-3 with arboviruses including neutralization, virus stock preparation, rodent and mosquito infections.

---

**From:** Weaver, Scott <sweaver@UTMB.EDU>  
**Sent:** Tuesday, March 1, 2016 9:33 AM  
**To:** Donna Weaver  
**Subject:** FW: Nature Microbiology Conference

This is a nice area of China and the Japan meeting is just after. Maybe you and Daniil could come to one or both

---

**From:** "Pariente, Nonia" <[Nonia.Pariente@nature.com](mailto:Nonia.Pariente@nature.com)>  
**Date:** Tuesday, March 1, 2016 at 4:19 AM  
**To:** Scott Weaver <[sweaver@utmb.edu](mailto:sweaver@utmb.edu)>  
**Subject:** Nature Microbiology Conference

Dear Scott,

You will surely not remember me, although we met when I was a grad student in Esteban Domingo's lab, during your sabbatical in Madrid all those years ago. After my PhD, I spent some years as a postdoc at UCLA and then moved into scientific editing, first at EMBO press and since last September at Nature Microbiology. I am very excited to be part of the launch of this journal, so at the heart of my scientific upbringing! I have followed your career from afar, as part of my general interest in viral evolution and now also pathogenesis and epidemiology, so it is a real pleasure to have a chance to cross paths again with you.

Nature Microbiology is organizing a conference on "Viral infection and the immune response" next fall (please find further details and the official invitation below), and of course we would like to include a talk on Zika. Given your many years of experience with arboviruses, and the expertise amassed at Galveston over the years, you are the man of the hour! I nevertheless hope that your agenda is clear for 21-23 October next year, as it would be really nice to see you again and it would be great to count with your point of view at the meeting.

I look forward to hearing from you.

With best wishes,

Nonia

----

Nature Conference on Viral Infection and Immune Response

October 21-23, 2016 - Shangri-la Hotel, Wuhan  
700 Jian She Avenue, Hankou District, Wuhan, 430015, China

Dear Prof. Weaver,

We are writing to cordially invite you as a plenary speaker at the Nature Conference entitled "Viral Infection and Immune Response". The conference will be held in Wuhan, China on October 21-23, 2016, and is being organized by Nature Microbiology, in partnership with our colleagues and funders at Wuhan Institute of Virology



(<http://www.nature.com/natureconferences/viir2016/index.html>). We have included the session topics and list of confirmed speakers below.

We would like you to give a 25-minute talk to be followed by a 5-minute Q&A on the current Zika outbreak.

Our conference partners in China will provide you with up to \$4000 USD to cover the cost of your airfare, which you may book as you wish. Your lodging and most of your local ground travel will be pre-paid and virtually all meals will be provided. Once confirmed, you will be contacted with all logistics information and details to make your reservations as well as more information from the organizers about the full program once our invited speakers have confirmed.

We truly hope you can accept our invitation and attend this exciting conference. We are looking forward to your favorable reply. Please can you write to let us know by the 22nd of December 2015 so that we can begin to prepare our program and launch our completed conference Website for attendee registration. If you have an assistant to be copied on future correspondence, please provide the contact information for our records.

Best regards,

Nonia and Andrew

On behalf of the organizers:

Hong Tang, Wuhan Institute of Virology, Chinese Academy of Sciences  
George Gao, Institute of Microbiology, Chinese Academy of Sciences  
Andrew Jermy, Nature Microbiology  
Nonia Pariente, Nature Microbiology

Session topics:

Epidemiology of emerging viral disease  
Persistent viral infection and immune dysregulation  
Viral Pathogenesis  
Immune Intervention and prevention of disease  
Innate antiviral immunity  
Induction of systemic adaptive immunity

Invited speakers:

Thirumala-Devi Kanneganti, St. Jude Children's Research Hospital  
Hong-bing Shu, Wuhan University  
James Chen, UT Southwestern  
Dennis Burton, Scripps Research Institute  
Nancy Sullivan, NIH  
James Crowe, Vanderbilt University  
Andrew Rambaut, University of Edinburgh  
Xue-tao Cao, Zhejiang University School of Medicine  
Andrea Cox, Johns Hopkins School of Medicine  
Gong Cheng, Tsinghua University School of Medicines  
Wendy Barclay, Imperial College London



Hua-lan Chen, Harbin Veterinary Research Institute  
Elodie Ghedin, New York University  
Kwok Jun Yuen, The University of Hong Kong  
Kanta Subbarao, NIH  
Paul Klennerman, University of Oxford  
Xiao-long Liu, Tsinghua University School of Medicine  
Edward Mocarski, Emory University  
Malik Peiris, The University of Hong Kong  
Hai Qi, Tsinghua University School of Medicines  
Jose Villadangos, University of Melbourne  
John Schoggins, UT Southwestern  
Feng Shao, National Institute of Biological Sciences, Beijing  
Sharon Lewin, University of Melbourne  
George F Gao, Institute of Microbiology Chinese Academy of Sciences  
Rafick-Pierre Sekaly, VGTI Florida  
Bing Sun, Institut Pasteur of Shanghai, CAS  
Fu-sheng Wang, Beijing Institute of Infectious Diseases

-----  
Nonia Pariente, PhD  
Senior Editor  
Nature Microbiology

[orcid.org/0000-0002-3666-5683](https://orcid.org/0000-0002-3666-5683)

4 Crinan St, London, N1 9XW  
+44 207 843 4889  
[nonia.pariante@nature.com](mailto:nonia.pariante@nature.com)

\*\*\*\*\*

DISCLAIMER: This e-mail is confidential and should not be used by anyone who is not the original intended recipient. If you have received this e-mail in error please inform the sender and delete it from your mailbox or any other storage mechanism. Neither Macmillan Publishers Limited nor Macmillan Publishers International Limited nor any of their agents accept liability for any statements made which are clearly the sender's own and not expressly made on behalf of Macmillan Publishers Limited or Macmillan Publishers International Limited or one of their agents.

Please note that neither Macmillan Publishers Limited nor Macmillan Publishers International Limited nor any of their agents accept any responsibility for viruses that may be contained in this e-mail or its attachments and it is your responsibility to scan the e-mail and attachments (if any). No contracts may be concluded on behalf of Macmillan Publishers Limited or Macmillan Publishers International Limited or their agents by means of e-mail communication.

Macmillan Publishers Limited. Registered in England and Wales with registered number 785998. Macmillan Publishers International Limited. Registered in England and Wales with registered number 02063302.

Registered Office Brunel Road, Houndmills, Basingstoke RG21 6XS

Pan Macmillan, Priddy and MDL are divisions of Macmillan Publishers International Limited.

Macmillan Science and Education, Macmillan Science and Scholarly, Macmillan Education, Language Learning, Schools, Palgrave, Nature Publishing Group, Palgrave Macmillan, Macmillan Science Communications and Macmillan Medical Communications are divisions of Macmillan Publishers Limited.

\*\*\*\*\*

---

**From:** Weaver, Scott <sweaver@UTMB.EDU>  
**Sent:** Wednesday, March 2, 2016 9:20 PM  
**To:** Pariente;Nonia  
**Subject:** Re: Nature Microbiology Conference

Hi Nonia,

Very nice to hear from you after all of these years and thanks for the invitation. I still have very fond memories of my time with you and the rest of Estaban's group in 2000 (the last time I had time to do much lab work!).

I am very interested in accepting but I need to see if I can reschedule a few things to accommodate. I will try to give you a definite answer within about a week.

Saludos

Scott

---

**From:** "Pariente, Nonia" <Nonia.Pariente@nature.com>  
**Date:** Tuesday, March 1, 2016 at 4:19 AM  
**To:** Scott Weaver <sweaver@utmb.edu>  
**Subject:** Nature Microbiology Conference

Dear Scott,

You will surely not remember me, although we met when I was a grad student in Esteban Domingo's lab, during your sabbatical in Madrid all those years ago. After my PhD, I spent some years as a postdoc at UCLA and then moved into scientific editing, first at EMBO press and since last September at Nature Microbiology. I am very excited to be part of the launch of this journal, so at the heart of my scientific upbringing! I have followed your career from afar, as part of my general interest in viral evolution and now also pathogenesis and epidemiology, so it is a real pleasure to have a chance to cross paths again with you.

Nature Microbiology is organizing a conference on "Viral infection and the immune response" next fall (please find further details and the official invitation below), and of course we would like to include a talk on Zika. Given your many years of experience with arboviruses, and the expertise amassed at Galveston over the years, you are the man of the hour! I nevertheless hope that your agenda is clear for 21-23 October next year, as it would be really nice to see you again and it would be great to count with your point of view at the meeting.

I look forward to hearing from you.

With best wishes,

Nonia

----

Nature Conference on Viral Infection and Immune Response

October 21-23, 2016 - Shangri-la Hotel, Wuhan  
700 Jian She Avenue, Hankou District, Wuhan, 430015, China

Dear Prof. Weaver,

We are writing to cordially invite you as a plenary speaker at the Nature Conference entitled "Viral Infection and Immune Response". The conference will be held in Wuhan, China on October 21-23, 2016, and is being organized by Nature Microbiology, in partnership with our colleagues and funders at Wuhan Institute of Virology (<http://www.nature.com/natureconferences/viir2016/index.html>). We have included the session topics and list of confirmed speakers below.

We would like you to give a 25-minute talk to be followed by a 5-minute Q&A on the current Zika outbreak.

Our conference partners in China will provide you with up to \$4000 USD to cover the cost of your airfare, which you may book as you wish. Your lodging and most of your local ground travel will be pre-paid and virtually all meals will be provided. Once confirmed, you will be contacted with all logistics information and details to make your reservations as well as more information from the organizers about the full program once our invited speakers have confirmed.

We truly hope you can accept our invitation and attend this exciting conference. We are looking forward to your favorable reply. Please can you write to let us know by the 22nd of December 2015 so that we can begin to prepare our program and launch our completed conference Website for attendee registration. If you have an assistant to be copied on future correspondence, please provide the contact information for our records.

Best regards,

Nonia and Andrew

On behalf of the organizers:

Hong Tang, Wuhan Institute of Virology, Chinese Academy of Sciences  
George Gao, Institute of Microbiology, Chinese Academy of Sciences  
Andrew Jermy, Nature Microbiology  
Nonia Pariente, Nature Microbiology

Session topics:

Epidemiology of emerging viral disease  
Persistent viral infection and immune dysregulation  
Viral Pathogenesis  
Immune Intervention and prevention of disease  
Innate antiviral immunity  
Induction of systemic adaptive immunity

Invited speakers:

Thirumala-Devi Kanneganti, St. Jude Children's Research Hospital  
Hong-bing Shu, Wuhan University

James Chen, UT Southwestern  
Dennis Burton, Scripps Research Institute  
Nancy Sullivan, NIH  
James Crowe, Vanderbilt University  
Andrew Rambaut, University of Edinburgh  
Xue-tao Cao, Zhejiang University School of Medicine  
Andrea Cox, Johns Hopkins School of Medicine  
Gong Cheng, Tsinghua University School of Medicines  
Wendy Barclay, Imperial College London  
Hua-lan Chen, Harbin Veterinary Research Institute  
Elodie Ghedin, New York University  
Kwok Jun Yuen, The University of Hong Kong  
Kanta Subbarao, NIH  
Paul Klenerman, University of Oxford  
Xiao-long Liu, Tsinghua University School of Medicine  
Edward Mocarski, Emory University  
Malik Peiris, The University of Hong Kong  
Hai Qi, Tsinghua University School of Medicines  
Jose Villadangos, University of Melbourne  
John Schoggins, UT Southwestern  
Feng Shao, National Institute of Biological Sciences, Beijing  
Sharon Lewin, University of Melbourne  
George F Gao, Institute of Microbiology Chinese Academy of Sciences  
Rafick-Pierre Sekaly, VGTI Florida  
Bing Sun, Institut Pasteur of Shanghai, CAS  
Fu-sheng Wang, Beijing Institute of Infectious Diseases

----

Nonia Pariente, PhD  
Senior Editor  
Nature Microbiology

[orcid.org/0000-0002-3666-5683](https://orcid.org/0000-0002-3666-5683)

4 Crinan St, London, N1 9XW  
+44 207 843 4889  
[nonia.pariante@nature.com](mailto:nonia.pariante@nature.com)

\*\*\*\*\*

DISCLAIMER: This e-mail is confidential and should not be used by anyone who is not the original intended recipient. If you have received this e-mail in error please inform the sender and delete it from your mailbox or any other storage mechanism. Neither Macmillan Publishers Limited nor Macmillan Publishers International Limited nor any of their agents accept liability for any statements made which are clearly the sender's own and not expressly made on behalf of Macmillan Publishers Limited or Macmillan Publishers International Limited or one of their agents.

Please note that neither Macmillan Publishers Limited nor Macmillan Publishers International Limited nor any of their agents accept any responsibility for viruses that may be contained in this e-mail or its attachments and it is your responsibility to scan the e-mail and attachments (if any). No contracts may be concluded on behalf of Macmillan Publishers Limited or Macmillan Publishers International Limited or their agents by means of e-mail communication.

Macmillan Publishers Limited. Registered in England and Wales with registered number 785998. Macmillan Publishers International Limited. Registered in England and Wales with registered number 02063302.

Registered Office Brunel Road, Houndmills, Basingstoke RG21 6XS

Pan Macmillan, Priddy and MDL are divisions of Macmillan Publishers International Limited.

Macmillan Science and Education, Macmillan Science and Scholarly, Macmillan Education, Language Learning, Schools, Palgrave, Nature Publishing Group, Palgrave Macmillan, Macmillan Science Communications and Macmillan Medical Communications are divisions of Macmillan Publishers Limited.

\*\*\*\*\*

---

**From:** Weaver, Scott <sweaver@UTMB.EDU>  
**Sent:** Sunday, March 13, 2016 9:30 PM  
**To:** Pariente;Nonia  
**Subject:** Re: Nature Microbiology Conference

Hi Nonia,

Sorry but it does not look like I will be able to attend this meeting due to a commitment just afterward.

Thanks again for the invitation and I hope to see you at another conference before too long.

Best regards

Scott

---

**From:** "Pariente, Nonia" <Nonia.Pariente@nature.com>  
**Date:** Tuesday, March 1, 2016 at 4:19 AM  
**To:** Scott Weaver <sweaver@utmb.edu>  
**Subject:** Nature Microbiology Conference

Dear Scott,

You will surely not remember me, although we met when I was a grad student in Esteban Domingo's lab, during your sabbatical in Madrid all those years ago. After my PhD, I spent some years as a postdoc at UCLA and then moved into scientific editing, first at EMBO press and since last September at Nature Microbiology. I am very excited to be part of the launch of this journal, so at the heart of my scientific upbringing! I have followed your career from afar, as part of my general interest in viral evolution and now also pathogenesis and epidemiology, so it is a real pleasure to have a chance to cross paths again with you.

Nature Microbiology is organizing a conference on "Viral infection and the immune response" next fall (please find further details and the official invitation below), and of course we would like to include a talk on Zika. Given your many years of experience with arboviruses, and the expertise amassed at Galveston over the years, you are the man of the hour! I nevertheless hope that your agenda is clear for 21-23 October next year, as it would be really nice to see you again and it would be great to count with your point of view at the meeting.

I look forward to hearing from you.

With best wishes,

Nonia

----

Nature Conference on Viral Infection and Immune Response

October 21-23, 2016 - Shangri-la Hotel, Wuhan  
700 Jian She Avenue, Hankou District, Wuhan, 430015, China

Dear Prof. Weaver,

We are writing to cordially invite you as a plenary speaker at the Nature Conference entitled "Viral Infection and Immune Response". The conference will be held in Wuhan, China on October 21-23, 2016, and is being organized by Nature Microbiology, in partnership with our colleagues and funders at Wuhan Institute of Virology (<http://www.nature.com/natureconferences/viir2016/index.html>). We have included the session topics and list of confirmed speakers below.

We would like you to give a 25-minute talk to be followed by a 5-minute Q&A on the current Zika outbreak.

Our conference partners in China will provide you with up to \$4000 USD to cover the cost of your airfare, which you may book as you wish. Your lodging and most of your local ground travel will be pre-paid and virtually all meals will be provided. Once confirmed, you will be contacted with all logistics information and details to make your reservations as well as more information from the organizers about the full program once our invited speakers have confirmed.

We truly hope you can accept our invitation and attend this exciting conference. We are looking forward to your favorable reply. Please can you write to let us know by the 22nd of December 2015 so that we can begin to prepare our program and launch our completed conference Website for attendee registration. If you have an assistant to be copied on future correspondence, please provide the contact information for our records.

Best regards,

Nonia and Andrew

On behalf of the organizers:

Hong Tang, Wuhan Institute of Virology, Chinese Academy of Sciences  
George Gao, Institute of Microbiology, Chinese Academy of Sciences  
Andrew Jermy, Nature Microbiology  
Nonia Pariente, Nature Microbiology

Session topics:

Epidemiology of emerging viral disease  
Persistent viral infection and immune dysregulation  
Viral Pathogenesis  
Immune Intervention and prevention of disease  
Innate antiviral immunity  
Induction of systemic adaptive immunity

Invited speakers:

Thirumala-Devi Kanneganti, St. Jude Children's Research Hospital  
Hong-bing Shu, Wuhan University  
James Chen, UT Southwestern  
Dennis Burton, Scripps Research Institute



Nancy Sullivan, NIH  
James Crowe, Vanderbilt University  
Andrew Rambaut, University of Edinburgh  
Xue-tao Cao, Zhejiang University School of Medicine  
Andrea Cox, Johns Hopkins School of Medicine  
Gong Cheng, Tsinghua University School of Medicines  
Wendy Barclay, Imperial College London  
Hua-lan Chen, Harbin Veterinary Research Institute  
Elodie Ghedin, New York University  
Kwok Jun Yuen, The University of Hong Kong  
Kanta Subbarao, NIH  
Paul Klennerman, University of Oxford  
Xiao-long Liu, Tsinghua University School of Medicine  
Edward Mocarski, Emory University  
Malik Peiris, The University of Hong Kong  
Hai Qi, Tsinghua University School of Medicines  
Jose Villadangos, University of Melbourne  
John Schoggins, UT Southwestern  
Feng Shao, National Institute of Biological Sciences, Beijing  
Sharon Lewin, University of Melbourne  
George F Gao, Institute of Microbiology Chinese Academy of Sciences  
Rafick-Pierre Sekaly, VGTI Florida  
Bing Sun, Institut Pasteur of Shanghai, CAS  
Fu-sheng Wang, Beijing Institute of Infectious Diseases

-----  
Nonia Pariente, PhD  
Senior Editor  
Nature Microbiology

[orcid.org/0000-0002-3666-5683](https://orcid.org/0000-0002-3666-5683)

4 Crinan St, London, N1 9XW  
+44 207 843 4889  
[nonia.pariante@nature.com](mailto:nonia.pariante@nature.com)

\*\*\*\*\*

DISCLAIMER: This e-mail is confidential and should not be used by anyone who is not the original intended recipient. If you have received this e-mail in error please inform the sender and delete it from your mailbox or any other storage mechanism. Neither Macmillan Publishers Limited nor Macmillan Publishers International Limited nor any of their agents accept liability for any statements made which are clearly the sender's own and not expressly made on behalf of Macmillan Publishers Limited or Macmillan Publishers International Limited or one of their agents.

Please note that neither Macmillan Publishers Limited nor Macmillan Publishers International Limited nor any of their agents accept any responsibility for viruses that may be contained in this e-mail or its attachments and it is your responsibility to scan the e-mail and attachments (if any). No contracts may be concluded on behalf of Macmillan Publishers Limited or Macmillan Publishers International Limited or their agents by means of e-mail communication.

Macmillan Publishers Limited. Registered in England and Wales with registered number 785998. Macmillan Publishers International Limited. Registered in England and Wales with registered number 02063302.

Registered Office Brunel Road, Houndmills, Basingstoke RG21 6XS

Pan Macmillan, Priddy and MDL are divisions of Macmillan Publishers International Limited.

Macmillan Science and Education, Macmillan Science and Scholarly, Macmillan Education, Language Learning, Schools, Palgrave, Nature Publishing Group, Palgrave Macmillan, Macmillan Science Communications and Macmillan Medical Communications are divisions of Macmillan Publishers Limited.

\*\*\*\*\*

---

**From:** 黄弋 <hy@wh.iov.cn>  
**Sent:** Thursday, April 21, 2016 12:14 AM  
**To:** Bukreyev, Alexander  
**Cc:** Yuan Zhiming  
**Subject:** Application for Visiting Scholar (Self-funded)  
**Attachments:** CV(hy).pdf

**Follow Up Flag:** Follow Up  
**Flag Status:** Flagged

Dear Prof. Alexander Bukreyev,

I wish to apply for a visiting scholar position in your group (b)(6)  
(b)(6) I am currently an associate research fellow in National High-Level Biosafety Laboratory (Wuhan), CAS. Now I am applying for a funding opportunity for conducting overseas research in the scholarship program called "government-sponsored visiting scholar research", which is launched by Chinese Academy of Sciences. By that the fee for my studying and living abroad will be totally supported by Chinese Academy of Sciences.

(b)(6)

Attached please find my CV with details of my education, research interests, research experience, etc. I welcome any questions from you regarding this application, and I look forward to your response. Thank you very much for your time and consideration.

Sincerely yours,

—  
Yi Huang, Ph.D,  
Associate Research scientist  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
Wuhan 430071,

P.R.China

## Visiting Scholar Applicant

Yi HUANG  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
430071, Wuhan, China  
Email: [hy@wh.iov.cn](mailto:hy@wh.iov.cn)  
Tel: [+86] (27)-51319680

### **PERSONAL INFORMATION**

---

First Name: Yi

Last Name: HUANG

Gender: Female

Birth Date: [REDACTED]

Marital Status: (b)(6)

(b)(6)



Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act



---

**From:** Bente, Dennis A.  
**Sent:** Tuesday, April 26, 2016 10:47 PM  
**To:** LeDuc, James W.  
**Subject:** Fwd: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Attachments:** Invitation letter Bente Dennis A.doc

Dear Jim,

You mentioned the idea of us going to China in the Fall to foster the collaboration. The meeting mentioned below might be a good option.

What do you think?

Dennis

Sent via mobile device. Please excuse typos and brevity.

----- Original message -----

From: 胡犇 <huben@wh.iov.cn>

Date: 4/26/2016 21:55 (GMT-06:00)

To: "Bente, Dennis A." <dabente@UTMB.EDU>

Subject: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Bente:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

We are glad that you attended the symposium in 2014 and gave an impressive talk. We sincerely hope that you can attend the symposium again this year. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311  
E-mail: [huben@wh.iov.cn](mailto:huben@wh.iov.cn)



**The 7th International Symposium on Emerging Viral Diseases**

**Address: Xiaohongshan 44, Wuchang, Wuhan 430071, Hubei, P.R. China**

**Tel: +86-27-87197311 Fax: +86-27-87197240 <http://www.whiov.ac.cn>**

---

April 27, 2016

Dr. Dennis A Bente

Galveston National Laboratory & University of Texas Medical Branch, Department of Microbiology & Immunology, 301 University Boulevard, Galveston, Texas, USA

Dear Dr. Dennis A Bente

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016 in Wuhan, China. The symposium will be organized by the Wuhan Institute of Virology, Chinese Academy of Sciences, and will cover various topics of emerging viruses, including epidemiology, molecular biology, evolution, immunology, and pathogenesis. This biennial symposium has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

It is our great pleasure to invite you as a plenary speaker to present your work at this symposium. Your accommodation and expenses in Wuhan will be covered by the conference. In addition, *Virologica Sinica*, the official journal of Chinese Society for Microbiology, will dedicate a special issue for this symposium. Your contribution of an article to this open-access issue will be greatly appreciated. However, due to budget constrain, we are regretfully unable to cover your travel expenses.

Please return the attached Reply Form by email to our secretary Dr. Ben Hu ([huben@wh.iov.cn](mailto:huben@wh.iov.cn)) by June 30, 2016. Also, the registration website of the symposium (<http://isevd2016.csp.escience.cn>) is being tested and will be opened soon. If you are able to attend the symposium, please register and submit the abstract of your presentation online by July 31, 2016. As an invited speaker, your registration fee will be waived.

We look forward to seeing you in Wuhan.

Sincerely Yours,

(b)(6)

**Zhengli SHI Ph.D**  
Wuhan Institute of Virology  
Chinese Academy of Sciences  
[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

(b)(6)

**Linfa WANG Ph.D**  
Programme in Emerging Infectious Diseases  
Duke-NUS Medical School  
[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)

**7<sup>th</sup> International Symposium on Emerging Viral Diseases**  
**Oct. 19-21, 2016, Wuhan, China**

Reply Form for Invited Speakers

Name of invited Speaker	
Contact email	
Are you able to attend the symposium?	
Dates of your arrival and departure in Wuhan	
Do you need travel assistance?	
Title of your presentation	

**Please return your reply form by email to our secretary by June 30, 2016 and submit your abstract online (see attached sample/ template) by July 31, 2016.**

***Ben Hu    Ph.D***

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R.China  
Tel/Fax: +86-27-87197311  
Email: huben@wh.iov.cn

*Abstract template*

**Difference in receptor usage between SARS coronavirus and SARS-like coronavirus of bat origin**

Wuze Ren<sup>1</sup>, Xiuxia Qu<sup>2</sup>, Wendong Li<sup>1</sup>, Zhenggang Han<sup>1</sup>, Meng Yu, Peng Zhou, Shuyi Zhang, Lin-Fa Wang<sup>3</sup>, Hongkui Deng<sup>2</sup>, Zhengli Shi<sup>1</sup>

<sup>1</sup>State key Laboratory of Virology, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China; <sup>2</sup>Key Laboratory of Cell Proliferation and Differentiation of the Ministry of Education, College of Life Sciences, Peking University, Beijing, China; <sup>3</sup>CSIRO Livestock Industries, Australian Animal Health Laboratory and Australian Biosecurity Cooperative Research Center for Emerging Infectious Diseases, Geelong, Australia; and School of Life Science, <sup>4</sup>East China Normal University, Shanghai, China

Severe acute respiratory syndrome (SARS) was caused by the SARS-associated coronavirus (SARS-CoV), which uses the angiotensin converting enzyme 2 (ACE2) as its receptor for cell entry. A group of SARS-like coronaviruses (SL-CoVs) has been identified in horseshoe bats. SL-CoVs and SARS-CoVs share an identical genome organization and high sequence identities with the main exception of the N-terminus of the spike protein (S), known to be responsible for receptor binding in coronaviruses. In this study, we investigated the receptor usage of the SL-CoV S by combining an HIV-based pseudovirus system with cell lines expressing the ACE2 molecules of human, civet or horseshoe bat. In addition to full-length S of SL-CoV and SARS-CoV, a series of S chimeras was constructed by inserting different sequences of the SARS-CoV S into the SL-CoV S backbone. Several important observations were made from this study. First, the SL-CoV S was unable to use any of the three ACE2 molecules as its receptor. Second, the SARS-CoV S failed to enter cells expressing the bat ACE2. Third, the chimeric S covering the previously defined receptor-binding domain gained their ability to enter cells via human ACE2, albeit with different efficiency for different constructs. Fourth, a minimal insert region (aa 310-518) was found to be sufficient to convert the SL-CoV S from ACE2-non-binding to human ACE2-binding, indicating that the SL-CoV S is largely compatible to SARS-CoV S protein both in structure and function.

---

**From:** LeDuc, James W.  
**Sent:** Thursday, April 28, 2016 8:12 AM  
**To:** Bente, Dennis A.  
**Cc:** Mendoza, Imelda  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Yes, this might be a good opportunity.

Imelda, please check my calendar to see if I can fit a week in for a trip to China.

Thanks

**From:** Bente, Dennis A.  
**Sent:** Tuesday, April 26, 2016 10:47 PM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Fwd: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Jim,  
You mentioned the idea of us going to China in the Fall to foster the collaboration. The meeting mentioned below might be a good option.  
What do you think?  
Dennis

Sent via mobile device. Please excuse typos and brevity.

----- Original message -----

From: 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
Date: 4/26/2016 21:55 (GMT-06:00)  
To: "Bente, Dennis A." <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)>  
Subject: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Bente:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

We are glad that you attended the symposium in 2014 and gave an impressive talk. We sincerely hope that you can attend the symposium again this year. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311  
E-mail: [huben@wh.iov.cn](mailto:huben@wh.iov.cn)

---

**Subject:** Wuhan, CHINA (7th International Symposium on Emerging Viral Diseases)

**Start:** Tue 10/18/2016 7:00 PM  
**End:** Sat 10/22/2016 7:00 PM  
**Show Time As:** Free

**Recurrence:** (none)

**Organizer:** LeDuc, James W.

**From:** LeDuc, James W.  
**Sent:** Thursday, April 28, 2016 8:12 AM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Yes, this might be a good opportunity.

Imelda, please check my calendar to see if I can fit a week in for a trip to China.

Thanks

**From:** Bente, Dennis A.  
**Sent:** Tuesday, April 26, 2016 10:47 PM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Fwd: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Jim,  
You mentioned the idea of us going to China in the Fall to foster the collaboration. The meeting mentioned below might be a good option.  
What do you think?  
Dennis

Sent via mobile device. Please excuse typos and brevity.

----- Original message -----

**From:** 胡犇 <huben@wh.iov.cn>  
**Date:** 4/26/2016 21:55 (GMT-06:00)  
**To:** "Bente, Dennis A." <dabente@UTMB.EDU>  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases



Dear Prof. Bente:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

We are glad that you attended the symposium in 2014 and gave an impressive talk. We sincerely hope that you can attend the symposium again this year. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu    Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311  
E-mail: [huben@wh.iov.cn](mailto:huben@wh.iov.cn)

---

**From:** LeDuc, James W.  
**Sent:** Thursday, April 28, 2016 5:39 PM  
**To:** Mendoza, Imelda  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

I will probably attend the meeting in Wuhan rather than Japan, but let's discuss a bit closer to the time. For now, please keep both on the calendar.

Thanks

**From:** Mendoza, Imelda  
**Sent:** Thursday, April 28, 2016 11:48 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>; Bente, Dennis A. <dabente@UTMB.EDU>  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr Le Duc,

You are tentatively scheduled to attend the GVN network meeting, Oct 23-25 in Sapporo, Japan. Do you want to attend the symposium in Wuhan and then travel to Sapporo? Otherwise, the week of October 3-7 and October 10-14 are also open.

Thanks.  
Imelda

**From:** LeDuc, James W.  
**Sent:** Thursday, April 28, 2016 8:12 AM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Yes, this might be a good opportunity.

Imelda, please check my calendar to see if I can fit a week in for a trip to China.

Thanks

**From:** Bente, Dennis A.  
**Sent:** Tuesday, April 26, 2016 10:47 PM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Fwd: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Jim,

You mentioned the idea of us going to China in the Fall to foster the collaboration. The meeting mentioned below might be a good option.

What do you think?

Dennis

Sent via mobile device. Please excuse typos and brevity.

----- Original message -----

From: 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

Date: 4/26/2016 21:55 (GMT-06:00)

To: "Bente, Dennis A." <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)>

Subject: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Bente:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

We are glad that you attended the symposium in 2014 and gave an impressive talk. We sincerely hope that you can attend the symposium again this year. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311  
E-mail: [huben@wh.iov.cn](mailto:huben@wh.iov.cn)

---

**From:** Wang Linfa <linfa.wang@duke-nus.edu.sg>  
**Sent:** Thursday, May 12, 2016 4:17 AM  
**To:** LeDuc, James W.; zlshi (zlshi@wh.iov.cn)  
**Cc:** Ksiazek, Thomas G.; Geisbert, Thomas W.  
**Subject:** Introducing Dr. Zhengli Shi from Wuhan

Dear Jim and Tom (G),

It was great to finally meet you at UTMB and I was very impressed with the facility and the large number of PIs working on infectious diseases on the campus.

Dear Tom (K),

I hope you are fully recovered and hope to catch up with you in my next visit.

I am introducing Dr. Zhengli Shi from Wuhan Institute of Virology. She has been a long term collaborator of mine with work on bat-borne viruses. She is also the director of the EID group in Wuhan who is in the process of getting their BSL4 lab accredited for operation.

Zhengli is looking for partners in BSL4 work, starting with collaboration in training. I have strongly recommended the GNL at UTMB.

Dear Zhengli,

Dr. Jame LeDuc is the director at the GNL and you can start by contacting him with your specific ideas of collaboration in training and other areas of reseach.

Thank you all.

Linfa

*Linfa (Lin-Fa) WANG, PhD FTSE*  
Professor & Director  
Programme in Emerging Infectious Disease  
Duke-NUS Medical School,  
8 College Road, Singapore 169857  
E-mail: [linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)  
Tel: +65 6516 8397  
Fax: +65 6221 2529

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify us immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.

---

**From:** zlshi <zlshi@wh.iov.cn>  
**Sent:** Thursday, May 12, 2016 5:05 AM  
**To:** LeDuc, James W.  
**Cc:** Ksiazek, Thomas G.; Geisbert, Thomas W.; linfa.wang@duke-nus.edu.sg  
**Subject:** Re: Introducing Dr. Zhengli Shi from Wuhan

Dear Dr. LeDuc,

Thanks to Linfa for the introduction. It was a pity that I missed the opportunity to meet you at the early time when you visited our Institute in October 2013. We appreciate very much for your training to Dr. Xia Han who returned to China recently.

As Linfa said, our P4 laboratory have finished the construction and is in the process of national accreditation. For running the laboratory, It's necessary for us to have more experienced scientists and technicians to work in the lab. For this purpose, we encourage our young scientist to apply for the scholarship from Chinese Academy of Sciences. We would appreciate a lot if your lab could continue to accept more scientists from our Institute. Thank you in advance.

Looking forward to hearing from you!

Best regards,

Zhengli,

---

SHI Zhengli, Ph. D  
Senior Scientist & Professor  
Wuhan Institute of Virology, Chinese Academy of Sciences  
44 Xiao Hong Shan  
430071 Wuhan, Hubei  
China  
Tel & Fax: (0086) 27 87197240  
Email: [zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

---

**From:** Wang Linfa  
**Date:** 2016-05-12 17:16  
**To:** 'LeDuc, James W.'; zlshi (zlshi@wh.iov.cn)  
**CC:** 'Ksiazek, Thomas G.'; Geisbert, Thomas W.  
**Subject:** Introducing Dr. Zhengli Shi from Wuhan  
Dear Jim and Tom (G),

It was great to finally meet you at UTMB and I was very impressed with the facility and the large number of PIs working on infectious diseases on the campus.

Dear Tom (K),  
I hope you are fully recovered and hope to catch up with you in my next visit.

I am introducing Dr. Zhengli Shi from Wuhan Institute of Virology. She has been a long term collaborator of mine with work on bat-borne viruses. She is also the director of the EID group in Wuhan who is in the process of getting their BSL4 lab accredited for operation.

Zhengli is looking for partners in BSL4 work, starting with collaboration in training. I have strongly recommended the GNL at UTMB.

Dear Zhengli,

Dr. Jame LeDuc is the director at the GNL and you can start by contacting him with your specific ideas of collaboration in training and other areas of research.

Thank you all.

Linfa

*Linfa (Lin-Fa) WANG, PhD FTSE*  
Professor & Director  
Programme in Emerging Infectious Disease  
Duke-NUS Medical School,  
8 College Road, Singapore 169857  
E-mail: [linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)  
Tel: +65 6516 8397  
Fax: +65 6221 2529

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify us immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.

---

**From:** LeDuc, James W.  
**Sent:** Friday, May 13, 2016 11:30 PM  
**To:** Wang Linfa  
**Cc:** zlshi (zlshi@wh.iov.cn);Ksiazek, Thomas G.;Geisbert, Thomas W.  
**Subject:** Re: Introducing Dr. Zhengli Shi from Wuhan

Dear Linfa

Thank you for your visit to the GNL and for taking time to meet with us. I trust that we we'll be able to establish the collaborations as discussed.

Dr Shi, we look forward to discussing how we might best work together. As I think you know, we have had great experiences with your colleagues from Wuhan working here at the GNL including Dr Han Xia.

Linfa, I enjoyed meeting many of your colleagues here at the NAS meeting.

Best regards. Jim

Sent from my iPhone

On May 12, 2016, at 1:16 PM, Wang Linfa <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)> wrote:

Dear Jim and Tom (G),

It was great to finally meet you at UTMB and I was very impressed with the facility and the large number of Pls working on infectious diseases on the campus.

Dear Tom (K),

I hope you are fully recovered and hope to catch up with you in my next visit.

I am introducing Dr. Zhengli Shi from Wuhan Institute of Virology. She has been a long term collaborator of mine with work on bat-borne viruses. She is also the director of the EID group in Wuhan who is in the process of getting their BSL4 lab accredited for operation.

Zhengli is looking for partners in BSL4 work, starting with collaboration in training. I have strongly recommended the GNL at UTMB.

Dear Zhengli,

Dr. Jame LeDuc is the director at the GNL and you can start by contacting him with your specific ideas of collaboration in training and other areas of reseach.

Thank you all.

Linfa

*Linfa (Lin-Fa) WANG, PhD FTSE*

Professor & Director  
Programme in Emerging Infectious Disease  
Duke-NUS Medical School,  
8 College Road, Singapore 169857  
E-mail: [linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)  
Tel: +65 6516 8397  
Fax: +65 6221 2529

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify us immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.



---

**From:** LeDuc, James W.  
**Sent:** Friday, May 13, 2016 11:32 PM  
**To:** zlshi  
**Subject:** Re: Introducing Dr. Zhengli Shi from Wuhan

We would be pleased to work with additional scientists from your facility. My goal is to establish long term collaborations between our two laboratories.

With best wishes

Jim

Sent from my iPhone

On May 12, 2016, at 2:06 PM, zlshi <[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)> wrote:

Dear Dr. LeDuc,

Thanks to Linfa for the introduction. It was a pity that I missed the opportunity to meet you at the early time when you visited our Institute in October 2013. We appreciate very much for your training to Dr. Xia Han who returned to China recently.

As Linfa said, our P4 laboratory have finished the construction and is in the process of national accreditation. For running the laboratory, It's necessary for us to have more experienced scientists and technicians to work in the lab. For this purpose, we encourage our young scientist to apply for the scholarship from Chinese Academy of Sciences. We would appreciate a lot if your lab could continue to accept more scientists from our Institute. Thank you in advance.

Looking forward to hearing from you!

Best regards,

Zhengli,

---

SHI Zhengli, Ph. D  
Senior Scientist & Professor  
Wuhan Institute of Virology, Chinese Academy of Sciences  
44 Xiao Hong Shan  
430071 Wuhan, Hubei  
China  
Tel & Fax: (0086) 27 87197240  
Email: [zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

---

**From:** Wang Linfa  
**Date:** 2016-05-12 17:16  
**To:** 'LeDuc, James W.'; zlshi ([zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn))  
**CC:** 'Ksiazek, Thomas G.'; Geisbert, Thomas W.  
**Subject:** Introducing Dr. Zhengli Shi from Wuhan

Dear Jim and Tom (G),

It was great to finally meet you at UTMB and I was very impressed with the facility and the large number of PIs working on infectious diseases on the campus.

Dear Tom (K),

I hope you are fully recovered and hope to catch up with you in my next visit.

I am introducing Dr. Zhengli Shi from Wuhan Institute of Virology. She has been a long term collaborator of mine with work on bat-borne viruses. She is also the director of the EID group in Wuhan who is in the process of getting their BSL4 lab accredited for operation.

Zhengli is looking for partners in BSL4 work, starting with collaboration in training. I have strongly recommended the GNL at UTMB.

Dear Zhengli,

Dr. Jame LeDuc is the director at the GNL and you can start by contacting him with your specific ideas of collaboration in training and other areas of research.

Thank you all.

Linfa

***Linfa (Lin-Fa) WANG, PhD FTSE***  
**Professor & Director**  
**Programme in Emerging Infectious Disease**  
**Duke-NUS Medical School,**  
**8 College Road, Singapore 169857**  
**E-mail: [linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)**  
**Tel: +65 6516 8397**  
**Fax: +65 6221 2529**

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify us immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.

---

**From:** zlshi <zlshi@wh.iov.cn>  
**Sent:** Sunday, May 15, 2016 8:14 PM  
**To:** LeDuc, James W.  
**Subject:** Re: Re: Introducing Dr. Zhengli Shi from Wuhan

Dear Jim,

Thank you very much for your positive reply. Beside the training for our staff, I'm thinking if we could find funding to support our collaboration. Each year, Chinese government launch some collaboration project from different departments. Usually, the partners who have already established the collaboration (mainly based on publications) will have more chance to get it.

Another information for your consideration is we will organizer a meeting on emerging viral diseases on October 19-21, 2016. We would like to invite you to join our meeting and visit us again at your available time.

Best regards,

Zhengli,

---

SHI Zhengli, Ph. D  
Senior Scientist & Professor  
Wuhan Institute of Virology, Chinese Academy of Sciences  
44 Xiao Hong Shan  
430071 Wuhan, Hubei  
China  
Tel & Fax: (0086) 27 87197240  
Email: [zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

---

**From:** LeDuc, James W.  
**Date:** 2016-05-14 12:32  
**To:** zlshi  
**Subject:** Re: Introducing Dr. Zhengli Shi from Wuhan

We would be pleased to work with additional scientists from you facility. My goal is to establish long term collaborations between our two laboratories.

With best wishes

Jim

Sent from my iPhone

On May 12, 2016, at 2:06 PM, zlshi <[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)> wrote:

Dear Dr. LeDuc,

Thanks to Linfa for the introduction. It was a pity that I missed the opportunity to meet you at the early time when you visited our Institute in October 2013. We appreaite very much for your tranining to Dr. Xia Han who returned to China recently.

As Linfa said, our P4 laboratory have finished the construction and is in the process of national accreditation. For running the laboratory, It's necessary for us to have more experienced scientists and technicians to work in the lab. For this purpose, we encourage our young scientist to apply for the scholarship from Chinese Academy of Sciences. We would appreciate a lot if your lab could continue to accept more scientists from our Institute. Thank you in advance.

Looking forward to hearing from you!

Best regards,

Zhengli,

---

SHI Zhengli, Ph. D  
Senior Scientist & Professor  
Wuhan Institute of Virology, Chinese Academy of Sciences  
44 Xiao Hong Shan  
430071 Wuhan, Hubei  
China  
Tel & Fax: (0086) 27 87197240  
Email: [zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

---

**From:** Wang Linfa  
**Date:** 2016-05-12 17:16  
**To:** 'LeDuc, James W.'; [zlshi \(zlshi@wh.iov.cn\)](mailto:zlshi@wh.iov.cn)  
**CC:** 'Ksiazek, Thomas G.'; Geisbert, Thomas W.  
**Subject:** Introducing Dr. Zhengli Shi from Wuhan  
Dear Jim and Tom (G),

It was great to finally meet you at UTMB and I was very impressed with the facility and the large number of PIs working on infectious diseases on the campus.

Dear Tom (K),  
I hope you are fully recovered and hope to catch up with you in my next visit.

I am introducing Dr. Zhengli Shi from Wuhan Institute of Virology. She has been a long term collaborator of mine with work on bat-borne viruses. She is also the director of the EID group in Wuhan who is in the process of getting their BSL4 lab accredited for operation.

Zhengli is looking for partners in BSL4 work, starting with collaboration in training. I have strongly recommended the GNL at UTMB.

Dear Zhengli,  
Dr. Jame LeDuc is the director at the GNL and you can start by contacting him with your specific ideas of collaboration in training and other areas of reseach.

Thank you all.

Linfa

*Linfa (Lin-Fa) WANG, PhD FTSE*  
Professor & Director  
Programme in Emerging Infectious Disease  
Duke-NUS Medical School,  
8 College Road, Singapore 169857  
E-mail: [linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)  
Tel: +65 6516 8397  
Fax: +65 6221 2529

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify us immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.

---

**From:** LeDuc, James W. [/O=UTMB/OU=EMAIL/CN=RECIPIENTS/CN=JWLEDUC]  
**Sent:** 5/16/2016 7:06:07 AM  
**To:** Bente, Dennis A. [dabente@UTMB.EDU]  
**Subject:** FW: Re: Introducing Dr. Zhengli Shi from Wuhan

Dennis, please see string below. I think that you and Han Xia should start discussing specific next step collaborations that we might jointly propose for funding through the Chinese government plus/minus US side funding.

The meeting to which she refers is the one you had mentioned previously, correct? I'll see if I can attend.

Thanks, Jim

---

**From:** zlshi [mailto:zlshi@wh.iov.cn]  
**Sent:** Sunday, May 15, 2016 8:14 PM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Re: Re: Introducing Dr. Zhengli Shi from Wuhan

Dear Jim,

Thank you very much for your positive reply. Beside the training for our staff, I'm thinking if we could find funding to support our collaboration. Each year, Chinese government launch some collaboration project from different departments. Usually, the partners who have already established the collaboration (mainly based on publications) will have more chance to get it.

Another information for your consideration is we will organizer a meeting on emerging viral diseases on October 19-21, 2016. We would like to invite you to join our meeting and visit us again at your available time.

Best regards,

Zhengli,

---

SHI Zhengli, Ph. D  
Senior Scientist & Professor  
Wuhan Institute of Virology, Chinese Academy of Sciences  
44 Xiao Hong Shan  
430071 Wuhan, Hubei  
China  
Tel & Fax: (0086) 27 87197240  
Email: [zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

---

**From:** LeDuc, James W.  
**Date:** 2016-05-14 12:32  
**To:** [zlshi](mailto:zlshi)  
**Subject:** Re: Introducing Dr. Zhengli Shi from Wuhan

We would be pleased to work with additional scientists from you facility. My goal is to establish long term collaborations between our two laboratories.

With best wishes

Jim

Sent from my iPhone

On May 12, 2016, at 2:06 PM, zlshi <[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)> wrote:

Dear Dr. LeDuc,

Thanks to Linfa for the introduction. It was a pity that I missed the opportunity to meet you at the early time when you visited our Institute in October 2013. We appreciate very much for your training to Dr. Xia Han who returned to China recently.

As Linfa said, our P4 laboratory have finished the construction and is in the process of national accreditation. For running the laboratory, It's necessary for us to have more experienced scientists and technicians to work in the lab. For this purpose, we encourage our young scientist to apply for the scholarship from Chinese Academy of Sciences. We would appreciate a lot if your lab could continue to accept more scientists from our Institute. Thank you in advance.

Looking forward to hearing from you!

Best regards,

Zhengli,

---

SHI Zhengli, Ph. D  
Senior Scientist & Professor  
Wuhan Institute of Virology, Chinese Academy of Sciences  
44 Xiao Hong Shan  
430071 Wuhan, Hubei  
China  
Tel & Fax: (0086) 27 87197240  
Email: [zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

---

**From:** Wang Linfa  
**Date:** 2016-05-12 17:16  
**To:** 'LeDuc, James W.'; [zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)  
**CC:** 'Ksiazek, Thomas G.'; Geisbert, Thomas W.  
**Subject:** Introducing Dr. Zhengli Shi from Wuhan  
Dear Jim and Tom (G),

It was great to finally meet you at UTMB and I was very impressed with the facility and the large number of PIs working on infectious diseases on the campus.

Dear Tom (K),  
I hope you are fully recovered and hope to catch up with you in my next visit.

I am introducing Dr. Zhengli Shi from Wuhan Institute of Virology. She has been a long term collaborator of mine with work on bat-borne viruses. She is also the director of the EID group in Wuhan who is in the process of getting their BSL4 lab accredited for operation.

Zhengli is looking for partners in BSL4 work, starting with collaboration in training. I have strongly recommended the GNL at UTMB.

Dear Zhengli,  
Dr. Jame LeDuc is the director at the GNL and you can start by contacting him with your specific ideas of collaboration in training and other areas of research.

Thank you all.

Linfa

*Linfa (Lin-Fa) WANG, PhD FTSE*  
Professor & Director  
Programme in Emerging Infectious Disease  
Duke-NUS Medical School,  
8 College Road, Singapore 169857  
E-mail: [linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)  
Tel: +65 6516 8397  
Fax: +65 6221 2529

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify us immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.



---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Friday, June 3, 2016 2:35 AM  
**To:** Ksiazek, Thomas G.  
**Cc:** 石正丽; (b)(6)  
**Subject:** Invitation letter of the 7th International Symposium on Emerging Viral Diseases  
**Attachments:** Invitation letter Thomas G. Ksiazek.doc

Dear Prof. Ksiazek:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311



**The 7th International Symposium on Emerging Viral Diseases**

**Address: Xiaohongshan 44, Wuchang, Wuhan 430071, Hubei, P.R. China**

**Tel: +86-27-87197311 Fax: +86-27-87197240 <http://www.whiov.ac.cn>**

---

June 3, 2016

Prof. Thomas G Ksiazek

Professor, Microbiology and Immunology

Director, High containment laboratory operations

University of Texas Medical Branch

Galveston, TX 77555-0610

Dear Prof. Thomas G Ksiazek:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016 in Wuhan, China. The symposium will be organized by the Wuhan Institute of Virology, Chinese Academy of Sciences, and will cover various topics of emerging viruses, including epidemiology, molecular biology, evolution, immunology, and pathogenesis. This biennial symposium has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

It is our great pleasure to invite you as a plenary speaker to present your work at this symposium. Your accommodation and expenses in Wuhan will be covered by the conference. However, due to budget constrain, we are regretfully unable to cover your travel expenses.

If you are able to attend the symposium, please register and submit the abstract of your presentation online (<http://isevd2016.csp.escience.cn>) by July 31, 2016. As an invited speaker, your registration fee will be waived.

We look forward to seeing you in Wuhan.

Sincerely Yours,

(b)(6)

**Zhengli SHI Ph.D**

Senior Scientist & Professor

Wuhan Institute of Virology

Chinese Academy of Sciences

[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

(b)(6)

**Linfa WANG Ph.D**

Professor

Programme in Emerging Infectious Diseases

Duke-NUS Medical School

[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)

**Difference in receptor usage between SARS coronavirus and SARS-like coronavirus of bat origin**

Wuze Ren<sup>1</sup>, Xiuxia Qu<sup>2</sup>, Wendong Li<sup>1</sup>, Zhenggang Han<sup>1</sup>, Meng Yu, Peng Zhou, Shuyi Zhang, Lin-Fa Wang<sup>3</sup>, Hongkui Deng<sup>2</sup>, Zhengli Shi<sup>1</sup>

<sup>1</sup>State key Laboratory of Virology, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China; <sup>2</sup>Key Laboratory of Cell Proliferation and Differentiation of the Ministry of Education, College of Life Sciences, Peking University, Beijing, China; <sup>3</sup>CSIRO Livestock Industries, Australian Animal Health Laboratory and Australian Biosecurity Cooperative Research Center for Emerging Infectious Diseases, Geelong, Australia; and School of Life Science, <sup>4</sup>East China Normal University, Shanghai, China

Severe acute respiratory syndrome (SARS) was caused by the SARS-associated coronavirus (SARS-CoV), which uses the angiotensin converting enzyme 2 (ACE2) as its receptor for cell entry. A group of SARS-like coronaviruses (SL-CoVs) has been identified in horseshoe bats. SL-CoVs and SARS-CoVs share an identical genome organization and high sequence identities with the main exception of the N-terminus of the spike protein (S), known to be responsible for receptor binding in coronaviruses. In this study, we investigated the receptor usage of the SL-CoV S by combining an HIV-based pseudovirus system with cell lines expressing the ACE2 molecules of human, civet or horseshoe bat. In addition to full-length S of SL-CoV and SARS-CoV, a series of S chimeras was constructed by inserting different sequences of the SARS-CoV S into the SL-CoV S backbone. Several important observations were made from this study. First, the SL-CoV S was unable to use any of the three ACE2 molecules as its receptor. Second, the SARS-CoV S failed to enter cells expressing the bat ACE2. Third, the chimeric S covering the previously defined receptor-binding domain gained their ability to enter cells via human ACE2, albeit with different efficiency for different constructs. Fourth, a minimal insert region (aa 310-518) was found to be sufficient to convert the SL-CoV S from ACE2-non-binding to human ACE2-binding, indicating that the SL-CoV S is largely compatible to SARS-CoV S protein both in structure and function.

---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Friday, June 3, 2016 2:43 AM  
**To:** Bente, Dennis A.  
**Cc:** 石正丽(b)(6)  
**Subject:** Invitation letter of the 7th International Symposium on Emerging Viral Diseases  
**Attachments:** Invitation letter Dennis Bente.doc

Dear Dr. Bente:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

We are glad that you attended the symposium in 2014 and gave an impressive talk. We sincerely hope that you can attend the symposium again this year. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311  
E-mail: [huben@wh.iov.cn](mailto:huben@wh.iov.cn)



**The 7th International Symposium on Emerging Viral Diseases**

**Address: Xiaohongshan 44, Wuchang, Wuhan 430071, Hubei, P.R. China**

**Tel: +86-27-87197311 Fax: +86-27-87197240 <http://www.whiov.ac.cn>**

---

June 3, 2016

Dennis Bente

Microbiology & Immunology

University of Texas Medical Branch

Galveston, TX 77555-0610

Dear Dr. Dennis Bente:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016 in Wuhan, China. The symposium will be organized by the Wuhan Institute of Virology, Chinese Academy of Sciences, and will cover various topics of emerging viruses, including epidemiology, molecular biology, evolution, immunology, and pathogenesis. This biennial symposium has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

It is our great pleasure to invite you as a plenary speaker to present your work at this symposium. Your accommodation and expenses in Wuhan will be covered by the conference. However, due to budget constrain, we are regretfully unable to cover your travel expenses.

If you are able to attend the symposium, please register and submit the abstract of your presentation online (<http://isevd2016.csp.escience.cn>) by July 31, 2016. As an invited speaker, your registration fee will be waived.

We look forward to seeing you in Wuhan.

Sincerely Yours,

(b)(6)

(b)(6)

**Zhengli SHI Ph.D**

Senior Scientist & Professor

Wuhan Institute of Virology

Chinese Academy of Sciences

[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)

**Linfa WANG Ph.D**

Professor

Programme in Emerging Infectious Diseases

Duke-NUS Medical School

[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)

*Abstract template*

## **Difference in receptor usage between SARS coronavirus and SARS-like coronavirus of bat origin**

Wuze Ren<sup>1</sup>, Xiuxia Qu<sup>2</sup>, Wendong Li<sup>1</sup>, Zhenggang Han<sup>1</sup>, Meng Yu, Peng Zhou, Shuyi Zhang, Lin-Fa Wang<sup>3</sup>, Hongkui Deng<sup>2</sup>, Zhengli Shi<sup>1</sup>

<sup>1</sup>State key Laboratory of Virology, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China; <sup>2</sup>Key Laboratory of Cell Proliferation and Differentiation of the Ministry of Education, College of Life Sciences, Peking University, Beijing, China; <sup>3</sup>CSIRO Livestock Industries, Australian Animal Health Laboratory and Australian Biosecurity Cooperative Research Center for Emerging Infectious Diseases, Geelong, Australia; and School of Life Science, <sup>4</sup>East China Normal University, Shanghai, China

Severe acute respiratory syndrome (SARS) was caused by the SARS-associated coronavirus (SARS-CoV), which uses the angiotensin converting enzyme 2 (ACE2) as its receptor for cell entry. A group of SARS-like coronaviruses (SL-CoVs) has been identified in horseshoe bats. SL-CoVs and SARS-CoVs share an identical genome organization and high sequence identities with the main exception of the N-terminus of the spike protein (S), known to be responsible for receptor binding in coronaviruses. In this study, we investigated the receptor usage of the SL-CoV S by combining an HIV-based pseudovirus system with cell lines expressing the ACE2 molecules of human, civet or horseshoe bat. In addition to full-length S of SL-CoV and SARS-CoV, a series of S chimeras was constructed by inserting different sequences of the SARS-CoV S into the SL-CoV S backbone. Several important observations were made from this study. First, the SL-CoV S was unable to use any of the three ACE2 molecules as its receptor. Second, the SARS-CoV S failed to enter cells expressing the bat ACE2. Third, the chimeric S covering the previously defined receptor-binding domain gained their ability to enter cells via human ACE2, albeit with different efficiency for different constructs. Fourth, a minimal insert region (aa 310-518) was found to be sufficient to convert the SL-CoV S from ACE2-non-binding to human ACE2-binding, indicating that the SL-CoV S is largely compatible to SARS-CoV S protein both in structure and function.

---

**From:** LeDuc, James W.  
**Sent:** Thursday, June 9, 2016 3:47 PM  
**To:** 胡犇  
**Cc:** 石正丽 (b)(6) Mendoza, Imelda; Mifang Liang; Yuan Zhiming; Ksiazek, Thomas G.; Bente, Dennis A.  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

I am pleased to accept your kind invitation to join you in the International Symposium on Emerging Viral Diseases in Wuhan in October. I look forward to seeing you and many friends at that time.

With best wishes,

Jim

James W. Le Duc  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Friday, June 03, 2016 2:28 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** 石正丽 <zlshi@wh.iov.cn> (b)(6)  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr.

Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311



---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Friday, July 29, 2016 10:58 AM  
**To:** Dave Franz (davidrf Franz@gmail.com)  
**Cc:** LeDuc, James W.;Mendoza, Imelda;Lowenthal, Micah  
**Subject:** FW: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Attachments:** Invitation letter James Leduc.doc

Hi Dave,

Here is Jim's invite letter. Meeting info is included.

Kind regards,

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** LeDuc, James W. [mailto:jwleduc@UTMB.EDU]  
**Sent:** Monday, June 13, 2016 2:55 PM  
**To:** Rusek, Benjamin  
**Cc:** Lowenthal, Micah; 'davidrf Franz@gmail.com'  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Hi Ben,

All I have received to date is the message pasted below and the attached letter of invitation.

Thanks, Jim

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311

**From:** Rusek, Benjamin [<mailto:BRusek@nas.edu>]  
**Sent:** Monday, June 13, 2016 1:42 PM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Cc:** Lowenthal, Micah <[mlowenth@nas.edu](mailto:mlowenth@nas.edu)>; 'davidrf Franz' <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Hi Jim,

Do you have a preliminary agenda and participant list for the Wuhan meeting by chance?

Kind regards,

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** [davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com) [<mailto:davidrf Franz@gmail.com>]  
**Sent:** Saturday, June 11, 2016 11:31 AM  
**To:** Rusek, Benjamin  
**Cc:** LeDuc, James W.; Lowenthal, Micah  
**Subject:** Re: Invitation of the 7th International Symposium on Emerging Viral Diseases

Good. Thanks. I should start commo with our CBSG colleagues as soon as we make a decision. The CDC and CAS part should be straightforward. Have a good weekend. Dave

Sent from my iPhone

On Jun 11, 2016, at 10:28 AM, Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)> wrote:

Hi Jim and Dave, I will check in with our funder to see if I can get pre authorization to start the grant. I hear things are finally falling into place.

Ben

On Jun 9, 2016, at 5:57 PM, David Franz <davidrf Franz@gmail.com> wrote:

Good Jim, I penciled in a hold on the couple of days before and after the meeting dates, should Ben decide to do a planing trip. Best, dave

David R. Franz DVM, Ph.D



On Jun 9, 2016, at 4:46 PM, LeDuc, James W. wrote:

Dear Dr Ben Hu,

I am pleased to accept your kind invitation to join you in the International Symposium on Emerging Viral Diseases in Wuhan in October. I look forward to seeing you and many friends at that time.

With best wishes,

Jim

James W. Le Duc  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn> (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis

and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu    Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311



**The 7th International Symposium on Emerging Viral Diseases**

**Address: Xiaohongshan 44, Wuchang, Wuhan 430071, Hubei, P.R. China**

**Tel: +86-27-87197311 Fax: +86-27-87197240 <http://www.whiov.ac.cn>**

---

June 2, 2016

Prof. James W. Leduc

Professor, Microbiology and Immunology

Director, Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

Dear Prof. James W. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016 in Wuhan, China. The symposium will be organized by the Wuhan Institute of Virology, Chinese Academy of Sciences, and will cover various topics of emerging viruses, including epidemiology, molecular biology, evolution, immunology, and pathogenesis. This biennial symposium has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

It is our great pleasure to invite you as a plenary speaker to present your work at this symposium. Your accommodation and expenses in Wuhan will be covered by the conference. However, due to budget constrain, we are regretfully unable to cover your travel expenses.

If you are able to attend the symposium, please register and submit the abstract of your presentation online (<http://isevd2016.csp.escience.cn>) by July 31, 2016. As an invited speaker, your registration fee will be waived.

We look forward to seeing you in Wuhan.

Sincerely Yours,

(b)(6)

(b)(6)

**Zhengli SHI Ph.D**

Senior Scientist & Professor

Wuhan Institute of Virology

Chinese Academy of Sciences

zlshi@wh.iov.cn

**Linfa WANG Ph.D**

Professor

Programme in Emerging Infectious Diseases

Duke-NUS Medical School

linfa.wang@duke-nus.edu.sg

**Difference in receptor usage between SARS coronavirus and SARS-like coronavirus of bat origin**

Wuze Ren<sup>1</sup>, Xiuxia Qu<sup>2</sup>, Wendong Li<sup>1</sup>, Zhenggang Han<sup>1</sup>, Meng Yu, Peng Zhou, Shuyi Zhang, Lin-Fa Wang<sup>3</sup>, Hongkui Deng<sup>2</sup>, Zhengli Shi<sup>1</sup>

<sup>1</sup>State key Laboratory of Virology, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China; <sup>2</sup>Key Laboratory of Cell Proliferation and Differentiation of the Ministry of Education, College of Life Sciences, Peking University, Beijing, China; <sup>3</sup>CSIRO Livestock Industries, Australian Animal Health Laboratory and Australian Biosecurity Cooperative Research Center for Emerging Infectious Diseases, Geelong, Australia; and School of Life Science, <sup>4</sup>East China Normal University, Shanghai, China

Severe acute respiratory syndrome (SARS) was caused by the SARS-associated coronavirus (SARS-CoV), which uses the angiotensin converting enzyme 2 (ACE2) as its receptor for cell entry. A group of SARS-like coronaviruses (SL-CoVs) has been identified in horseshoe bats. SL-CoVs and SARS-CoVs share an identical genome organization and high sequence identities with the main exception of the N-terminus of the spike protein (S), known to be responsible for receptor binding in coronaviruses. In this study, we investigated the receptor usage of the SL-CoV S by combining an HIV-based pseudovirus system with cell lines expressing the ACE2 molecules of human, civet or horseshoe bat. In addition to full-length S of SL-CoV and SARS-CoV, a series of S chimeras was constructed by inserting different sequences of the SARS-CoV S into the SL-CoV S backbone. Several important observations were made from this study. First, the SL-CoV S was unable to use any of the three ACE2 molecules as its receptor. Second, the SARS-CoV S failed to enter cells expressing the bat ACE2. Third, the chimeric S covering the previously defined receptor-binding domain gained their ability to enter cells via human ACE2, albeit with different efficiency for different constructs. Fourth, a minimal insert region (aa 310-518) was found to be sufficient to convert the SL-CoV S from ACE2-non-binding to human ACE2-binding, indicating that the SL-CoV S is largely compatible to SARS-CoV S protein both in structure and function.

---

**From:** LeDuc, James W.  
**Sent:** Friday, August 26, 2016 8:55 AM  
**To:** Han Xia  
**Cc:** Dave Franz (davidrf Franz@gmail.com); Benjamin Rusek (BRusek@nas.edu); Bente, Dennis A.  
**Subject:** RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thanks Han. I'll let you know when we are scheduled to arrive. I will be travelling with Dave Franz and Ben Rusek of our National Academy of Sciences, in addition to Dennis, so we may all not fit in one car, but we'll sort that out later. I look forward to discussing future collaborations with you and Dr Yuan. This is important and I may have some resources to support a post-doc as we did for you, if we can identify a strong candidate.

I look forward to seeing you soon.

Jim

**From:** Han Xia (b)(6)  
**Sent:** Thursday, August 25, 2016 9:14 PM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Re: Invitation of the 7th International Symposium on Emerging Viral Diseases

Hi Dr LeDuc,

Once you make the decision for your dates in Wuhan, Dr. Yuan and I will make the schedule for you to meet with the candidates for collaborator/postdoc according to your time.

I will pick up you and Dennis when you arrive. Let me know if you need any other help.

Best,

Han

On Friday, August 26, 2016 5:10 AM, "LeDuc, James W." <jwleduc@UTMB.EDU> wrote:

Hi Ben,

I just submitted an abstract for my presentation at the Symposium and a copy is attached for your information. May I ask how much time will be available for the talk?

I will provide you with my arrival and departure dates as soon as possible. While I appreciate the kind offer to cover the cost of my accommodations and expenses while in Wuhan, that will not be necessary.

I look forward to seeing you in Wuhan and to a very informative meeting.

With best wishes,

Jim

James W. Le Duc  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** 胡森 [mailto:huben@wh.iov.cn]  
**Sent:** Friday, June 03, 2016 2:28 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311



---

**From:** Han Xia (b)(6)  
**Sent:** Saturday, September 10, 2016 6:28 PM  
**To:** 胡犇  
**Cc:** Bente, Dennis A.; Wilson, Brenda K.  
**Subject:** Re: Invitation letter of the 7th International Symposium on Emerging Viral Diseases

Hi Dr. Hu,

Could you please send an invitation letter to Dr. Brenda Wilson too? She will come with Dr. Dennis Bente for the meeting in Wuhan.

Her email address is bkwilson@utmb.edu

Thanks for your help!

-----  
Han Xia, PhD  
Associate Professor  
Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan, 430071, P.R. China  
T: 86-27-87198120  
M: (b)(6)  
E: hanxia@wh.iov.cn

On Friday, June 3, 2016 3:43 PM, 胡犇 <huben@wh.iov.cn> wrote:

Dear Dr. Bente:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

We are glad that you attended the symposium in 2014 and gave an impressive talk. We sincerely hope that you can attend the symposium again this year. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311  
E-mail: [huben@wh.iov.cn](mailto:huben@wh.iov.cn)

---

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 8:13 AM  
**To:** Mendoza, Imelda  
**Subject:** FW: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Monday, September 12, 2016 2:49 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 8 月 2 日 星期二  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>  
主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Mendoza, Imelda  
**Sent:** Monday, September 12, 2016 9:03 AM  
**To:** LeDuc, James W.  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc ,

Did you decide if you want to use the Lone Star Courier? I also need a check in the amount of \$140 to include with your application.

Thanks,

Imelda

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 8:13 AM  
**To:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** FW: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]  
**Sent:** Monday, September 12, 2016 2:49 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)



**From:** 胡森 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Mendoza, Imelda  
**Sent:** Monday, September 12, 2016 9:09 AM  
**To:** LeDuc, James W.  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Money Order or Cashier's Check payable to: Chinese Embassy.

Thanks.

**From:** Mendoza, Imelda  
**Sent:** Monday, September 12, 2016 9:03 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc ,

Did you decide if you want to use the Lone Star Courier? I also need a check in the amount of \$140 to include with your application.

Thanks,

Imelda

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 8:13 AM  
**To:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** FW: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Monday, September 12, 2016 2:49 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting

website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Mendoza, Imelda  
**Sent:** Monday, September 12, 2016 4:29 PM  
**To:** LeDuc, James W.  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,  
This remind me. Are we making your flight reservations here or is NAS making them?

Thanks.

Imelda

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 4:26 PM  
**To:** 胡犇 <huben@wh.iov.cn>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Benjamin Rusek (BRusek@nas.edu) <BRusek@nas.edu>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.



With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** 石正丽 <[zlishi@wh.iov.cn](mailto:zlishi@wh.iov.cn)>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and

immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



---

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 4:32 PM  
**To:** Mendoza, Imelda  
**Cc:** Benjamin Rusek (BRusek@nas.edu)  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Please check with Ben. I think we make them on US carrier to/from Beijing and let them know and they'll purchase the tickets. They will make the reservations inside China (I think).

**From:** Mendoza, Imelda  
**Sent:** Monday, September 12, 2016 4:29 PM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,  
This remind me. Are we making your flight reservations here or is NAS making them?

Thanks.

Imelda

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 4:26 PM  
**To:** 胡犇 <huben@wh.iov.cn>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Benjamin Rusek (BRusek@nas.edu) <BRusek@nas.edu>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc  
Director

Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Monday, September 12, 2016 2:49 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 8 月 2 日 星期二  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>  
主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on

Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311





---

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 4:47 PM  
**To:** Mendoza, Imelda  
**Cc:** Benjamin Rusek (BRusek@nas.edu)  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Imelda, I think the goal is to arrive in Beijing on 16 Oct (Sunday). I see several of the connections go through Dulles (Washington DC), so it may be easier if I take that route and get on the same flights as Dave and Ben. Please try to get Economy Plus seating if possible.

The flight I looked at was 7:20 am IAH to IAD (Washington) UA 421, connection with UA 807. Arriving in Beijing a 2:40 pm Sunday afternoon. Only problem may be the 1 hr 6 min connection in DC.

**From:** Mendoza, Imelda  
**Sent:** Monday, September 12, 2016 4:29 PM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,  
This remind me. Are we making your flight reservations here or is NAS making them?

Thanks.

Imelda

**From:** LeDuc, James W.  
**Sent:** Monday, September 12, 2016 4:26 PM  
**To:** 胡犇 <huben@wh.iov.cn>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Benjamin Rusek (BRusek@nas.edu) <BRusek@nas.edu>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Monday, September 12, 2016 2:49 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 8 月 2 日 星期二  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>  
主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** 石正丽 <[zlishi@wh.iov.cn](mailto:zlishi@wh.iov.cn)>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Tuesday, September 13, 2016 2:58 PM  
**To:** '??'  
**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); LeDuc, James W.  
**Subject:** RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhan in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibly the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek  
Senior Program Officer  
Policy and Global Affairs Division  
The U.S. National Academy of Sciences (NAS)  
Phone: 001-202-334-3975  
Cell: (b)(6)  
Fax: 001-202-334-1730  
Skype: (b)(6)

**From:** 胡桦 [mailto:huben@wh.iov.cn]  
**Sent:** Monday, September 12, 2016 8:43 PM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m)  

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,



As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** 石正丽 <[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)>; [\(b\)\(6\)](#)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Mendoza, Imelda  
**Sent:** Tuesday, September 13, 2016 3:08 PM  
**To:** LeDuc, James W.  
**Cc:** huben@wh.iov.cn; zls@wh.iov.cn (b)(6)  
**Subject:** URGENT - Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,

The packet made it to the Consulate's office in Houston but was rejected. They are requesting from CAS @Wuhan, a letter with an **official seal/stamp**. I have to call the consulate's office after 3:30 pm to find out exactly what is needed by them. At that time I will ask if they will accept an emailed copy from CAS with their official seal.

I will keep you posted.

Thanks.

**From:** LeDuc, James W.  
**Sent:** Thursday, August 25, 2016 4:49 PM  
**To:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** FW: Invitation of the 7th International Symposium on Emerging Viral Diseases

The attached letter will be needed for my visa application. Also, attached is the abstract for my presentation in Wuhan.

Let's start the request for international travel, etc, on your return next week.

Thanks,

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Friday, June 03, 2016 2:28 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** 石正丽 <zls@wh.iov.cn>; (b)(6)  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr.

Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan 430071, P.R. China  
Tel: 86-27-87197311

---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Tuesday, September 13, 2016 6:00 PM  
**To:** Rusek, Benjamin  
**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); LeDuc, James W.  
**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>  
发送时间: 2016 年 9 月 14 日 星期三  
收件人: '??' <huben@wh.iov.cn>  
抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>  
主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz (davidrfranz@gmail.com); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) b6



**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of

emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

I

---

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:34 AM  
**To:** 胡犇  
**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Subject:** RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Tuesday, September 13, 2016 6:00 PM  
**To:** Rusek, Benjamin <BRusek@nas.edu>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

发送时间: 2016 年 9 月 14 日 星期三

收件人: '??' <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) 409-266-6500

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely



Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]  
**Sent:** Friday, June 03, 2016 2:28 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Cc:** 石正丽 <[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)>; (b)(6)  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 9 月 14 日 星期三  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>  
主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

——原始邮件——

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016 年 9 月 14 日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡桦 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz (b)(6) Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely



Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (<linfa.wang@duke-nus.edu.sg>)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) [REDACTED]

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn>; [REDACTED]

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Mendoza, Imelda  
**Sent:** Wednesday, September 14, 2016 8:52 AM  
**To:** LeDuc, James W.  
**Subject:** FW: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr Le Duc:

I will call them again this morning and hopefully can get someone to talk to me. I think it's the one from CAS but I will double check. I think at this point if he could send both it will probably be most helpful. This way we are covered both ways.

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 14 日 星期三

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)) <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016年9月14日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

—  
Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: hby6

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:



The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡桦" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:56 AM  
**To:** 胡犇  
**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for your prompt response. We will try to reach the Consulate for clarification, but it is very difficult to speak with anyone there. Perhaps you can start the process to obtain both, just in case.

Enjoy the Mid-Autumn Holiday!

Thank you again for all your help.

Jim

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 14 日 星期三

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <BRusek@nas.edu>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrfranz@gmail.com) <davidrfranz@gmail.com>;

LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016 年 9 月 14 日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases



Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn> (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



---

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:57 AM  
**To:** Bente, Dennis A.  
**Subject:** FW: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dennis, have you received a visa for the China trip yet? We ran into some problems as indicated below.

thanks

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 9 月 14 日 星期三  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)) <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016年9月14日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]  
**Sent:** Monday, September 12, 2016 8:43 PM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Rusek, Benjamin  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.



We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

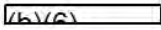
Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) 

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 9:53 AM  
**To:** Mendoza, Imelda;胡犇  
**Cc:** David Franz;Rusek, Benjamin  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Good, thank you. This should be much easier than the CAS invitation.

**From:** Mendoza, Imelda  
**Sent:** Wednesday, September 14, 2016 9:24 AM  
**To:** 胡犇 <huben@wh.iov.cn>  
**Cc:** LeDuc, James W. <jwleduc@UTMB.EDU>; David Franz <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for all of your help. I look forward to hearing from you next week.

Kind regards,

Imelda

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]  
**Sent:** Wednesday, September 14, 2016 9:19 AM  
**To:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>  
**Cc:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>; David Franz <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Imelda:

Got it. I will go to the administrative office of the institute for stamping on Sunday when they come back to work. I would like to do it tomorrow but no one will be available due to the holiday.

Please understand.

Kind regards

Ben

-----原始邮件-----

发件人: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>

发送时间: 2016 年 9 月 14 日 星期三

收件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>, "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "David Franz" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,

I just spoke with the Consulate and what they are requesting is the invitation with the **stamp of the Wuhan Institute of Virology**.

Thanks.

Imelda

---

**From:** LeDuc, James W.

**Sent:** Wednesday, September 14, 2016 8:56 AM

**To:** 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)) <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for your prompt response. We will try to reach the Consulate for clarification, but it is very difficult to speak with anyone there. Perhaps you can start the process to obtain both, just in case.

Enjoy the Mid-Autumn Holiday!

Thank you again for all your help.

Jim

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]

**Sent:** Wednesday, September 14, 2016 8:48 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)) <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly

Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 14 日 星期三

收件人: "胡森" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) b6/b7C

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

发送时间: 2016 年 9 月 14 日 星期三

收件人: '??' <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer



Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]  
**Sent:** Monday, September 12, 2016 2:49 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of

emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

.....

---

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 9:55 AM  
**To:** Bente, Dennis A.  
**Cc:** Mendoza, Imelda  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dennis, I would ask "Ben" to include a letter for you and Brenda as well since he will be going to their office on Monday to get one for me.

**From:** Bente, Dennis A.  
**Sent:** Wednesday, September 14, 2016 9:22 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

To be honest, I just received the invitation letter (I asked for one for Brenda as well). I was under the impression that in 2014 that was enough to receive the visa. Shall I contact Ben? Is he part of the Chinese team?

Thanks,  
Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:57 AM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Subject:** FW: RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dennis, have you received a visa for the China trip yet? We ran into some problems as indicated below.

thanks

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年9月14日 星期三

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500



(f) 409-266-6810

(m)  

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)) <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

发送时间: 2016年9月14日 星期三

收件人: '??' <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年8月2日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** 石正丽 <[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu    Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Bente, Dennis A.  
**Sent:** Thursday, September 15, 2016 11:39 AM  
**To:** LeDuc, James W.  
**Subject:** Chinese Visa

Hi Jim,

I have been discussing this with Han by email. She said if it's just the official stamp that is missing it can be done very quickly and we should be able to get the updated letter very quick. I don't think we need a dually authorized invitation letter or what Ben is refereeing too. Maybe we need to clarify that with Ben?

I have to admit I am very concerned about the timeline: I am planning on flying to Germany right before the China meeting and I need to have my passport back in order to get on that plane. I remember from last time that the turnaround time off the Chinese Embassy in Houston was pretty quick (just a few days). How long did it take them to respond to your request and decline it?

If we can get the letter with the official stamp by early next week and I can drive up to the embassy we should be good I guess.

What are your thoughts?

Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 9:55 AM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dennis, I would ask "Ben" to include a letter for you and Brenda as well since he will be going to their office on Monday to get one for me.

**From:** Bente, Dennis A.  
**Sent:** Wednesday, September 14, 2016 9:22 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

To be honest, I just received the invitation letter (I asked for one for Brenda as well). I was under the impression that in 2014 that was enough to receive the visa. Shall I contact Ben? Is he part of the Chinese team?

Thanks,  
Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:57 AM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>



**Subject:** FW: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dennis, have you received a visa for the China trip yet? We ran into some problems as indicated below.

thanks

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016年9月14日 星期三  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (b)(6)" <(b)(6)>, "Rusek, Benjamin" <BRusek@nas.edu>  
主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)) <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016年9月14日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡彝 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年8月2日 星期二

收件人: "胡彝" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu    Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



---

**From:** LeDuc, James W.  
**Sent:** Thursday, September 15, 2016 12:45 PM  
**To:** Bente, Dennis A.  
**Subject:** RE: Chinese Visa

The consulate indicated that they only need a stamp from the Wuhan Institute of Virology and "Ben" said he would get it on Sunday. They are in the midst of the autumn holiday now and everything is closed. You should follow up with Ben and make sure that you have the appropriate letter of invitation as well. I think that you can get a rapid turn-around on your visa for an additional \$20-30.00, which may be wise if you are short of time.

Here's my schedule. We need to start thinking about times to meet with Han and Yuan. I'm flying on United through IAD in DC and thus on the same flights as Ben Rusek and Dave Franz.

Saturday, Oct 15 - Franz, Leduc, Rusek Leave U.S. for Beijing  
Sunday, Oct 16 - Afternoon, Franz, Leduc, Rusek Arrive Beijing - Hotel InterContinental Beijing Beichen (Olympic Park)  
Monday, Oct 17 - Meetings in Beijing -  
Tuesday, Oct 18 - Meetings in Beijing, Evening - fly to Wuhan -Hong Shan Hotel  
Wednesday, Oct 19 - Registration for Wuhan conference, Meetings at Wuhan Institute of Virology to plan 2017 meeting  
Thursday, Oct 20 - Wuhan conference, Rusek fly back to Beijing and U.S.  
Friday, Oct 21 - Wuhan conference, Evening - Franz and LeDuc arrive Kunming - Grand Park Hotel  
Saturday, Oct 22 - Franz and LeDuc in Kunming (Maybe check out the Stone Forest, also [https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming\\_Yunnan.html](https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming_Yunnan.html))  
Sunday, Oct 23 - Franz and LeDuc in Kunming  
Monday, Oct 24 - Meetings in Kunming at CAS Institute of Medical Biology and other institutes. Discuss possibility of NAS CAS Kunming meeting for late 2017/18  
Tuesday, Oct 25 - Franz and Leduc back to Beijing and U.S.

**From:** Bente, Dennis A.  
**Sent:** Thursday, September 15, 2016 11:39 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Chinese Visa

Hi Jim,

I have been discussing this with Han by email. She said if it's just the official stamp that is missing it can be done very quickly and we should be able to get the updated letter very quick. I don't think we need a dually authorized invitation letter or what Ben is refereeing too. Maybe we need to clarify that with Ben?

I have to admit I am very concerned about the timeline: I am planning on flying to Germany right before the China meeting and I need to have my passport back in order to get on that plane. I remember from last time that the turnaround time off the Chinese Embassy in Houston was pretty quick (just a few days). How long did it take them to respond to your request and decline it?

If we can get the letter with the official stamp by early next week and I can drive up to the embassy we should be good I guess.

What are your thoughts?

Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 9:55 AM  
**To:** Bente, Dennis A. <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)>  
**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dennis, I would ask "Ben" to include a letter for you and Brenda as well since he will be going to their office on Monday to get one for me.

**From:** Bente, Dennis A.  
**Sent:** Wednesday, September 14, 2016 9:22 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

To be honest, I just received the invitation letter (I asked for one for Brenda as well). I was under the impression that in 2014 that was enough to receive the visa. Shall I contact Ben? Is he part of the Chinese team?

Thanks,  
Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:57 AM  
**To:** Bente, Dennis A. <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)>  
**Subject:** FW: RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dennis, have you received a visa for the China trip yet? We ran into some problems as indicated below.

thanks

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月14日 星期三

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]  
**Sent:** Tuesday, September 13, 2016 6:00 PM  
**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>;  
LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
发送时间: 2016年9月14日 星期三  
收件人: '??' <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: 001-202-839-0075

Fax: (b)(6)

Skype: (b)(6)

**From:** 胡彝 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月13日 星期二

收件人: "胡彝" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)"

<davidrfranz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年8月2日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to

investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:



The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu    Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

FOIA Confidential Treatment Requested by Univ of Texas System

---

**From:** Bente, Dennis A.  
**Sent:** Friday, September 16, 2016 10:20 AM  
**To:** LeDuc, James W.  
**Subject:** RE: Chinese Visa

Dear Jim,

I have been debating for the last week if I should not go to the meeting in Wuhan. (b)(6)

(b)(6)

Me not going to the meeting has no influence on our collaboration with Han since we currently are working on two manuscript and email on weekly basis. However, I don't want to break my commitment to you to meet with Dr. Yuan and you.

Please let me know what your thoughts are.

Dennis

**From:** LeDuc, James W.  
**Sent:** Thursday, September 15, 2016 12:45 PM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Subject:** RE: Chinese Visa

The consulate indicted that they only need a stamp from the Wuhan Institute of Virology and "Ben" said he would get it on Sunday. They are in the midst of the autumn holiday now and everything is closed. You should follow up with Ben and make sure that you have the appropriate letter of invitation as well. I think that you can get a rapid turn-around on your visa for an additional \$20-30.00, which may be wise if you are short of time.

Here's my schedule. We need to start thinking about times to meet with Han and Yuan. I'm flying on United through IAD in DC and thus on the same flights as Ben Rusek and Dave Franz.

Saturday, Oct 15 - Franz, Leduc, Rusek Leave U.S. for Beijing  
Sunday, Oct 16 - Afternoon, Franz, Leduc, Rusek Arrive Beijing - Hotel InterContinental Beijing Beichen (Olympic Park)  
Monday, Oct 17 - Meetings in Beijing -  
Tuesday, Oct 18 - Meetings in Beijing, Evening - fly to Wuhan -Hong Shan Hotel  
Wednesday, Oct 19 - Registration for Wuhan conference, Meetings at Wuhan Institute of Virology to plan 2017 meeting  
Thursday, Oct 20 - Wuhan conference, Rusek fly back to Beijing and U.S.  
Friday, Oct 21 - Wuhan conference, Evening - Franz and LeDuc arrive Kunming - Grand Park Hotel  
Saturday, Oct 22 - Franz and LeDuc in Kunming (Maybe check out the Stone Forest, also  
[https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming\\_Yunnan.html](https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming_Yunnan.html))  
Sunday, Oct 23 - Franz and LeDuc in Kunming  
Monday, Oct 24 - Meetings in Kunming at CAS Institute of Medical Biology and other institutes. Discuss possibility of NAS CAS Kunming meeting for late 2017/18  
Tuesday, Oct 25 - Franz and Leduc back to Beijing and U.S.

**From:** Bente, Dennis A.  
**Sent:** Thursday, September 15, 2016 11:39 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Chinese Visa

Hi Jim,

I have been discussing this with Han by email. She said if it's just the official stamp that is missing it can be done very quickly and we should be able to get the updated letter very quick. I don't think we need a dually authorized invitation letter or what Ben is refereeing too. Maybe we need to clarify that with Ben?

I have to admit I am very concerned about the timeline: I am planning on flying to Germany right before the China meeting and I need to have my passport back in order to get on that plane. I remember from last time that the turnaround time off the Chinese Embassy in Houston was pretty quick (just a few days). How long did it take them to respond to your request and decline it?

If we can get the letter with the official stamp by early next week and I can drive up to the embassy we should be good I guess.

What are your thoughts?

Dennis

**From:** LeDuc, James W.

**Sent:** Wednesday, September 14, 2016 9:55 AM

**To:** Bente, Dennis A. <dabente@UTMB.EDU>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dennis, I would ask "Ben" to include a letter for you and Brenda as well since he will be going to their office on Monday to get one for me.

**From:** Bente, Dennis A.

**Sent:** Wednesday, September 14, 2016 9:22 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

To be honest, I just received the invitation letter (I asked for one for Brenda as well). I was under the impression that in 2014 that was enough to receive the visa. Shall I contact Ben? Is he part of the Chinese team?

Thanks,

Dennis

**From:** LeDuc, James W.

**Sent:** Wednesday, September 14, 2016 8:57 AM

**To:** Bente, Dennis A. <dabente@UTMB.EDU>

**Subject:** FW: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**Importance:** High

Dennis, have you received a visa for the China trip yet? We ran into some problems as indicated below.

thanks

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Wednesday, September 14, 2016 8:48 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年9月14日 星期三

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

发送时间: 2016年9月14日 星期三

收件人: '??' <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡桦 [<mailto:huben@wh.iov.cn>]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)"

<davidrfranz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim



James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年8月2日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Friday, June 03, 2016 2:28 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** LeDuc, James W.  
**Sent:** Friday, September 16, 2016 11:14 AM  
**To:** Bente, Dennis A.  
**Subject:** RE: Chinese Visa

It doesn't matter to me, but I thought that it was a good opportunity for you to meet with potential post-doc candidate(s). If Han or Yuan have none identified, then even less reason to.

Your call

**From:** Bente, Dennis A.  
**Sent:** Friday, September 16, 2016 10:20 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** RE: Chinese Visa

Dear Jim,

I have been debating for the last week if I should not go to the meeting in Wuhan. (b)(6)

(b)(6)

Me not going to the meeting has no influence on our collaboration with Han since we currently are working on two manuscript and email on weekly basis. However, I don't want to break my commitment to you to meet with Dr. Yuan and you.

Please let me know what your thoughts are.

Dennis

**From:** LeDuc, James W.  
**Sent:** Thursday, September 15, 2016 12:45 PM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Subject:** RE: Chinese Visa

The consulate indicted that they only need a stamp from the Wuhan Institute of Virology and "Ben" said he would get it on Sunday. They are in the midst of the autumn holiday now and everything is closed. You should follow up with Ben and make sure that you have the appropriate letter of invitation as well. I think that you can get a rapid turn-around on your visa for an additional \$20-30.00, which may be wise if you are short of time.

Here's my schedule. We need to start thinking about times to meet with Han and Yuan. I'm flying on United through IAD in DC and thus on the same flights as Ben Rusek and Dave Franz.

Saturday, Oct 15 - Franz, Leduc, Rusek Leave U.S. for Beijing  
Sunday, Oct 16 - Afternoon, Franz, Leduc, Rusek Arrive Beijing - Hotel InterContinental Beijing Beichen (Olympic Park)  
Monday, Oct 17 - Meetings in Beijing -  
Tuesday, Oct 18 - Meetings in Beijing, Evening - fly to Wuhan -Hong Shan Hotel  
Wednesday, Oct 19 - Registration for Wuhan conference, Meetings at Wuhan Institute of Virology to plan 2017 meeting  
Thursday, Oct 20 - Wuhan conference, Rusek fly back to Beijing and U.S.  
Friday, Oct 21 - Wuhan conference, Evening - Franz and LeDuc arrive Kunming - Grand Park Hotel

Saturday, Oct 22 - Franz and LeDuc in Kunming (Maybe check out the Stone Forest, also [https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming\\_Yunnan.html](https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming_Yunnan.html))

Sunday, Oct 23 - Franz and LeDuc in Kunming

Monday, Oct 24 - Meetings in Kunming at CAS Institute of Medical Biology and other institutes. Discuss possibility of NAS CAS Kunming meeting for late 2017/18

Tuesday, Oct 25 - Franz and Leduc back to Beijing and U.S.

**From:** Bente, Dennis A.

**Sent:** Thursday, September 15, 2016 11:39 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Chinese Visa

Hi Jim,

I have been discussing this with Han by email. She said if it's just the official stamp that is missing it can be done very quickly and we should be able to get the updated letter very quick. I don't think we need a dually authorized invitation letter or what Ben is refereeing too. Maybe we need to clarify that with Ben?

I have to admit I am very concerned about the timeline: I am planning on flying to Germany right before the China meeting and I need to have my passport back in order to get on that plane. I remember from last time that the turnaround time off the Chinese Embassy in Houston was pretty quick (just a few days). How long did it take them to respond to your request and decline it?

If we can get the letter with the official stamp by early next week and I can drive up to the embassy we should be good I guess.

What are your thoughts?

Dennis

**From:** LeDuc, James W.

**Sent:** Wednesday, September 14, 2016 9:55 AM

**To:** Bente, Dennis A. <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dennis, I would ask "Ben" to include a letter for you and Brenda as well since he will be going to their office on Monday to get one for me.

**From:** Bente, Dennis A.

**Sent:** Wednesday, September 14, 2016 9:22 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

To be honest, I just received the invitation letter (I asked for one for Brenda as well). I was under the impression that in 2014 that was enough to receive the visa. Shall I contact Ben? Is he part of the Chinese team?

Thanks,  
Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:57 AM  
**To:** Bente, Dennis A. <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)>  
**Subject:** FW: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dennis, have you received a visa for the China trip yet? We ran into some problems as indicated below.

thanks

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
发送时间: 2016年9月14日 星期三  
收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.



Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016年9月14日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhan in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡桦 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Rusek, Benjamin  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) bvc

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting

website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年8月2日 星期二

收件人: "胡森" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Friday, June 03, 2016 2:28 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu    Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** Bente, Dennis A.  
**Sent:** Friday, September 16, 2016 3:20 PM  
**To:** LeDuc, James W.  
**Subject:** RE: Chinese Visa

I am not aware that neither Han nor Dr. Yuan have a potential candidate in mind, however, I will ask Han now.  
Dennis

**From:** LeDuc, James W.  
**Sent:** Friday, September 16, 2016 11:14 AM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Subject:** RE: Chinese Visa

It doesn't matter to me, but I thought that it was a good opportunity for you to meet with potential post-doc candidate(s). If Han or Yuan have none identified, then even less reason to.

Your call

**From:** Bente, Dennis A.  
**Sent:** Friday, September 16, 2016 10:20 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** RE: Chinese Visa

Dear Jim,

I have been debating for the last week if I should not go to the meeting in Wuhan. (b)(6)

(b)(6)

Me not going to the meeting has no influence on our collaboration with Han since we currently are working on two manuscript and email on weekly basis. However, I don't want to break my commitment to you to meet with Dr. Yuan and you.

Please let me know what your thoughts are.

Dennis

**From:** LeDuc, James W.  
**Sent:** Thursday, September 15, 2016 12:45 PM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Subject:** RE: Chinese Visa

The consulate indicted that they only need a stamp from the Wuhan Institute of Virology and "Ben" said he would get it on Sunday. They are in the midst of the autumn holiday now and everything is closed. You should follow up with Ben and make sure that you have the appropriate letter of invitation as well. I think that you can get a rapid turn-around on your visa for an additional \$20-30.00, which may be wise if you are short of time.

Here's my schedule. We need to start thinking about times to meet with Han and Yuan. I'm flying on United through IAD in DC and thus on the same flights as Ben Rusek and Dave Franz.

Saturday, Oct 15 - Franz, Leduc, Rusek Leave U.S. for Beijing  
 Sunday, Oct 16 - Afternoon, Franz, Leduc, Rusek Arrive Beijing - Hotel InterContinental Beijing Beichen (Olympic Park)  
 Monday, Oct 17 - Meetings in Beijing -  
 Tuesday, Oct 18 - Meetings in Beijing, Evening - fly to Wuhan -Hong Shan Hotel  
 Wednesday, Oct 19 - Registration for Wuhan conference, Meetings at Wuhan Institute of Virology to plan 2017 meeting  
 Thursday, Oct 20 - Wuhan conference, Rusek fly back to Beijing and U.S.  
 Friday, Oct 21 - Wuhan conference, Evening - Franz and LeDuc arrive Kunming - Grand Park Hotel  
 Saturday, Oct 22 - Franz and LeDuc in Kunming (Maybe check out the Stone Forest, also  
[https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming\\_Yunnan.html](https://www.tripadvisor.com/Attractions-g298558-Activities-Kunming_Yunnan.html))  
 Sunday, Oct 23 - Franz and LeDuc in Kunming  
 Monday, Oct 24 - Meetings in Kunming at CAS Institute of Medical Biology and other institutes. Discuss possibility of NAS  
 CAS Kunming meeting for late 2017/18  
 Tuesday, Oct 25 – Franz and Leduc back to Beijing and U.S.

**From:** Bente, Dennis A.  
**Sent:** Thursday, September 15, 2016 11:39 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Subject:** Chinese Visa

Hi Jim,

I have been discussing this with Han by email. She said if it's just the official stamp that is missing it can be done very quickly and we should be able to get the updated letter very quick. I don't think we need a dually authorized invitation letter or what Ben is refereeing too. Maybe we need to clarify that with Ben?

I have to admit I am very concerned about the timeline: I am planning on flying to Germany right before the China meeting and I need to have my passport back in order to get on that plane. I remember from last time that the turnaround time off the Chinese Embassy in Houston was pretty quick (just a few days). How long did it take them to respond to your request and decline it?

If we can get the letter with the official stamp by early next week and I can drive up to the embassy we should be good I guess.

What are your thoughts?

Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 9:55 AM  
**To:** Bente, Dennis A. <[dabente@UTMB.EDU](mailto:dabente@UTMB.EDU)>  
**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dennis, I would ask "Ben" to include a letter for you and Brenda as well since he will be going to their office on Monday to get one for me.

**From:** Bente, Dennis A.  
**Sent:** Wednesday, September 14, 2016 9:22 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases



To be honest, I just received the invitation letter (I asked for one for Brenda as well). I was under the impression that in 2014 that was enough to receive the visa. Shall I contact Ben? Is he part of the Chinese team?

Thanks,  
Dennis

**From:** LeDuc, James W.  
**Sent:** Wednesday, September 14, 2016 8:57 AM  
**To:** Bente, Dennis A. <dabente@UTMB.EDU>  
**Subject:** FW: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dennis, have you received a visa for the China trip yet? We ran into some problems as indicated below.

thanks

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Wednesday, September 14, 2016 8:48 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016年9月14日 星期三  
收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)) <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>; LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016年9月14日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: hube

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年9月13日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年8月2日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlshi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu    Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Sunday, September 18, 2016 8:00 AM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; David Franz; Rusek, Benjamin  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Attachments:** James LeDuc.jpg; Benjamin Rusek.jpg

Dear Prof. LeDuc:

Please find the new invitation letter with the stamping of Wuhan Institute of Virology. In case Dr. Rusek will need this as well, I also get one for him

I remembered Dr. Franz had informed me that he had already submitted visa application to the consulate in DC. But if he needs one with stamping, please let me know.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 9 月 14 日 星期三  
收件人: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "胡犇" <huben@wh.iov.cn>  
抄送: "David Franz" <davidrf Franz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>  
主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Good, thank you. This should be much easier than the CAS invitation.

---

**From:** Mendoza, Imelda  
**Sent:** Wednesday, September 14, 2016 9:24 AM  
**To:** 胡犇 <huben@wh.iov.cn>  
**Cc:** LeDuc, James W. <jwleduc@UTMB.EDU>; David Franz <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for all of your help. I look forward to hearing from you next week.

Kind regards,

Imelda

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Wednesday, September 14, 2016 9:19 AM

**To:** Mendoza, Imelda <imendoza@UTMB.EDU>

**Cc:** LeDuc, James W. <jwleduc@UTMB.EDU>; David Franz <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**Importance:** High

Dear Imelda:

Got it. I will go to the administrative office of the institute for stamping on Sunday when they come back to work. I would like to do it tomorrow but no one will be available due to the holiday.

Please understand.

Kind regards

Ben

-----原始邮件-----

发件人: "Mendoza, Imelda" <imendoza@UTMB.EDU>

发送时间: 2016 年 9 月 14 日 星期三

收件人: "LeDuc, James W." <jwleduc@UTMB.EDU>, "胡犇" <huben@wh.iov.cn>

抄送: "David Franz" <davidrf Franz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,

I just spoke with the Consulate and what they are requesting is the invitation with the **stamp of the Wuhan Institute of Virology**.

Thanks.

Imelda

---

**From:** LeDuc, James W.

**Sent:** Wednesday, September 14, 2016 8:56 AM

**To:** 胡犇 <huben@wh.iov.cn>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>;

Rusek, Benjamin <BRusek@nas.edu>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for your prompt response. We will try to reach the Consulate for clarification, but it is very difficult to speak with anyone there. Perhaps you can start the process to obtain both, just in case.

Enjoy the Mid-Autumn Holiday!

Thank you again for all your help.

Jim

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Wednesday, September 14, 2016 8:48 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>

**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月14日 星期三

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>;

LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

———原始邮件———

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016 年 9 月 14 日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell:

Fax: 001-202-334-1730

Skype:

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz (davidrfranz@gmail.com); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810



(m) [REDACTED]

**From:** 胡森 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; [REDACTED]

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



**WUHAN INSTITUTE OF VIROLOGY**  
**The CHINESE ACADEMY OF SCIENCES**

**Address: Xiaohongshan 44, Wuchang, Wuhan 430071, Hubei, P. R. China**  
**Tel: +86-27-87198117 Fax: +86-27-87198072 <http://www.whiov.ac.cn>**

---

September 18, 2016

Prof. James W. Leduc

Professor, Microbiology and Immunology

Director, Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

Dear Prof. James W. Leduc:


The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016 in Wuhan, China. The symposium will be organized by the Wuhan Institute of Virology, Chinese Academy of Sciences, and will cover various topics of emerging viruses, including epidemiology, molecular biology, evolution, immunology, and pathogenesis. This biennial symposium has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

It is our great pleasure to invite you as a plenary speaker to present your work at this symposium. Your accommodation and expenses in Wuhan will be covered by the conference. However, due to budget constrain, we are regretfully unable to cover your travel expenses. As an invited speaker, your registration fee will be waived.

We look forward to seeing you in Wuhan.

Sincerely Yours,

(b)(6)

  
**Zhengli SHI Ph.D**  
Senior Scientist & Professor  
Wuhan Institute of Virology  
Chinese Academy of Sciences  
[zlshe@wh.iov.cn](mailto:zlshe@wh.iov.cn)  
86-27-87197240



**WUHAN INSTITUTE OF VIROLOGY**  
**The CHINESE ACADEMY OF SCIENCES**

**Address: Xiaohongshan 44, Wuchang, Wuhan 430071, Hubei, P. R. China**  
**Tel: +86-27-87198117 Fax: +86-27-87198072 <http://www.whiov.ac.cn>**

---

September 18, 2016

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Dear Mr. Benjamin J. Rusek:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016 in Wuhan, China. The symposium will be organized by the Wuhan Institute of Virology, Chinese Academy of Sciences, and will cover various topics of emerging viruses, including epidemiology, molecular biology, evolution, immunology, and pathogenesis. This biennial symposium has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

It is our pleasure to invite you to attend this symposium. However, due to budget constrain, we are regretfully unable to cover your travel and accommodation expenses.

We look forward to seeing you in Wuhan.

Sincerely Yours,

(b)(6)

  
**Zhengli SHI Ph.D.**  
Senior Scientist & Professor  
Wuhan Institute of Virology  
Chinese Academy of Sciences  
[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)  
86-27-87197240



---

**From:** LeDuc, James W.  
**Sent:** Sunday, September 18, 2016 11:37 AM  
**To:** 胡犇  
**Cc:** Mendoza, Imelda;David Franz;Rusek, Benjamin  
**Subject:** Re: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you very much. I look forward to seeing you soon.

Jim

Sent from my iPhone

> On Sep 18, 2016, at 9:02 AM, 胡犇 <huben@wh.iov.cn> wrote:  
>  
>  
> Dear Prof. LeDuc:  
>  
> Please find the new invitation letter with the stamping of Wuhan  
> Institute of Virology. In case Dr. Rusek will need this as well, I  
> also get one for him  
>  
> I remembered Dr. Franz had informed me that he had already submitted visa application to the consulate in DC. But if  
he needs one with stamping, please let me know.  
>  
> Best regards  
>  
> Ben  
>  
>  
>  
> -----原始邮件-----  
> 发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
> 发送时间: 2016年9月14日 星期三  
> 收件人: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "胡犇" <huben@wh.iov.cn>  
> 抄送: "David Franz" <davidrf Franz@gmail.com>, "Rusek, Benjamin"  
> <BRusek@nas.edu>  
> 主题: RE: RE: Invitation of the 7th International Symposium on Emerging  
> Viral Diseases  
>  
> Good, thank you. This should be much easier than the CAS invitation.  
>  
> From: Mendoza, Imelda  
> Sent: Wednesday, September 14, 2016 9:24 AM  
> To: 胡犇 <huben@wh.iov.cn<mailto:huben@wh.iov.cn>>  
> Cc: LeDuc, James W. <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>; David  
> Franz <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>; Rusek,

> Benjamin <BRusek@nas.edu<mailto:BRusek@nas.edu>>  
> Subject: RE: RE: Invitation of the 7th International Symposium on  
> Emerging Viral Diseases  
>  
> Thank you Ben for all of your help. I look forward to hearing from you next week.  
> Kind regards,  
> Imelda  
>  
> From: 胡犇 [mailto:huben@wh.iov.cn]  
> Sent: Wednesday, September 14, 2016 9:19 AM  
> To: Mendoza, Imelda <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>  
> Cc: LeDuc, James W. <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>; David  
> Franz <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>; Rusek,  
> Benjamin <BRusek@nas.edu<mailto:BRusek@nas.edu>>  
> Subject: Re: RE: Invitation of the 7th International Symposium on  
> Emerging Viral Diseases  
> Importance: High  
>  
>  
> Dear Imelda:  
>  
> Got it. I will go to the administrative office of the institute for stamping on Sunday when they come back to work. I  
would like to do it tomorrow but no one will be available due to the holiday.  
>  
> Please understand.  
>  
> Kind regards  
>  
> Ben  
> -----原始邮件-----  
> 发件人: "Mendoza, Imelda" <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>  
> 发送时间: 2016年9月14日 星期三  
> 收件人: "LeDuc, James W." <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>,  
> "胡犇" <huben@wh.iov.cn<mailto:huben@wh.iov.cn>>  
> 抄送: "David Franz"  
> <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>, "Rusek,  
> Benjamin" <BRusek@nas.edu<mailto:BRusek@nas.edu>>  
> 主题: RE: Invitation of the 7th International Symposium on Emerging  
> Viral Diseases Dr. Le Duc, I just spoke with the Consulate and what  
> they are requesting is the invitation with the stamp of the Wuhan Institute of Virology.  
> Thanks.  
> Imelda  
> From: LeDuc, James W.  
> Sent: Wednesday, September 14, 2016 8:56 AM  
> To: 胡犇 <huben@wh.iov.cn<mailto:huben@wh.iov.cn>>  
> Cc: Mendoza, Imelda <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>;  
> Dave Franz (davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>)  
> <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>; Rusek, Benjamin  
> <BRusek@nas.edu<mailto:BRusek@nas.edu>>  
> Subject: RE: RE: RE: RE: RE: Invitation of the 7th International

> Symposium on Emerging Viral Diseases Thank you Ben for your prompt response. We will try to reach the Consulate for clarification, but it is very difficult to speak with anyone there. Perhaps you can start the process to obtain both, just in case.

> Enjoy the Mid-Autumn Holiday!

> Thank you again for all your help.

> Jim

> From: 胡犇 [mailto:huben@wh.iov.cn]

> Sent: Wednesday, September 14, 2016 8:48 AM

> To: LeDuc, James W. <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>

> Cc: Mendoza, Imelda <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>;

> Dave Franz (davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>)

> <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>; Rusek, Benjamin

> <BRusek@nas.edu<mailto:BRusek@nas.edu>>

> Subject: Re: RE: RE: RE: RE: Invitation of the 7th International

> Symposium on Emerging Viral Diseases

> Importance: High

> Dear Prof. Leduc:

>

> Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

>

> If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

>

> Anyway I will make it as quickly as I can.

>

> Best regards

>

> Ben

> -----原始邮件-----

> 发件人: "LeDuc, James W." <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>

> 发送时间: 2016年9月14日 星期三

> 收件人: "胡犇" <huben@wh.iov.cn<mailto:huben@wh.iov.cn>>

> 抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>;

> "Dave Franz (davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>)"

> <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>, "Rusek,

> Benjamin" <BRusek@nas.edu<mailto:BRusek@nas.edu>>

> 主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on

> Emerging Viral Diseases Dear Ben, I wanted to be sure that you saw

> that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

> Thanks, Jim

> James W. Le Duc

> Director

> Galveston National Laboratory

> University of Texas Medical Branch

> Galveston, TX 77555-0610

> (t) 409-266-6500

> (f) 409-266-6810  
> (m)    
>  
>  
>  
> From: 胡犇 [mailto:huben@wh.iov.cn<mailto:huben@wh.iov.cn>]  
> Sent: Tuesday, September 13, 2016 6:00 PM  
> To: Rusek, Benjamin <BRusek@nas.edu<mailto:BRusek@nas.edu>>  
> Cc: Mendoza, Imelda <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>;  
> Dave Franz (davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>)  
> <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>; LeDuc, James W.  
> <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>  
> Subject: Re: RE: RE: RE: Invitation of the 7th International Symposium  
> on Emerging Viral Diseases  
>  
>  
>  
>  
> Dear Dr. Rusek:  
>  
> The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.  
>  
> Sincerely  
>  
> Ben  
>  
>  
> -----原始邮件-----  
> 发件人: "Rusek, Benjamin" <BRusek@nas.edu<mailto:BRusek@nas.edu>>  
> 发送时间: 2016年9月14日 星期三  
> 收件人: '??' <huben@wh.iov.cn<mailto:huben@wh.iov.cn>>  
> 抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>;  
> "Dave Franz (davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>)"  
> <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>, "LeDuc, James  
> W." <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>  
> 主题: RE: RE: RE: Invitation of the 7th International Symposium on  
> Emerging Viral Diseases Greetings Ben,  
>  
> Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19th and possibility the morning of the 20th. Should I still register?  
>  
> Kind regards,  
>  
> Benjamin J. Rusek  
> Senior Program Officer  
> Policy and Global Affairs Division  
> The U.S. National Academy of Sciences (NAS)  
> Phone: 001-202-334-3975



> Cell: [REDACTED]  
 > Fax: 001-202-334-1730  
 > Skype: [REDACTED]  
 >  
 > From: 胡森 [mailto:huben@wh.iov.cn<mailto:huben@wh.iov.cn>]  
 > Sent: Monday, September 12, 2016 8:43 PM  
 > To: LeDuc, James W.  
 > Cc: Mendoza, Imelda; Dave Franz  
 > (davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>); Rusek, Benjamin  
 > Subject: Re: RE: RE: Invitation of the 7th International Symposium on  
 > Emerging Viral Diseases  
 >  
 >  
 >  
 >  
 > Dear Prof. Leduc:  
 >  
 > Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.  
 >  
 > May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.  
 >  
 > Thanks!  
 >  
 > Sincerely  
 >  
 > Ben  
 >  
 >  
 > -----原始邮件-----  
 > 发件人: "LeDuc, James W." <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>  
 > 发送时间: 2016年9月13日 星期二  
 > 收件人: "胡森" <huben@wh.iov.cn<mailto:huben@wh.iov.cn>>  
 > 抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU<mailto:imendoza@UTMB.EDU>>,  
 > "Dave Franz (davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>)"  
 > <davidrf Franz@gmail.com<mailto:davidrf Franz@gmail.com>>, "Benjamin Rusek  
 > (BRusek@nas.edu<mailto:BRusek@nas.edu>)"  
 > <BRusek@nas.edu<mailto:BRusek@nas.edu>>  
 > 主题: RE: RE: Invitation of the 7th International Symposium on Emerging  
 > Viral Diseases Dear Ben,  
 >  
 > Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).  
 >  
 > I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.  
 >  
 > As I believe I indicated previously, I will pay for my hotel room.  
 >

> We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

>

> I look forward to seeing you soon.

>

> Jim

>

> James W. Le Duc

> Director

> Galveston National Laboratory

> University of Texas Medical Branch

> Galveston, TX 77555-0610

> (t) 409-266-6500

> (f) 409-266-6810

> (m) (b)(6)

>

>

>

> From: 胡森 [mailto:huben@wh.iov.cn<mailto:huben@wh.iov.cn>]

> Sent: Monday, September 12, 2016 2:49 AM

> To: LeDuc, James W. <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>

> Subject: Re: RE: Invitation of the 7th International Symposium on

> Emerging Viral Diseases

>

>

> Dear Prof. Leduc:

>

> The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

>

> Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

>

> Besides, may I know the status of your visa? If it is ready, please update me.

>

> Thanks a lot!

>

> Sincerely

>

> Ben

>

>

> -----原始邮件-----

> 发件人: "LeDuc, James W." <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>

> 发送时间: 2016年8月2日 星期二

> 收件人: "胡森" <huben@wh.iov.cn<mailto:huben@wh.iov.cn>>

> 抄送: "Linfa Wang

> (linfa.wang@duke-nus.edu.sg<mailto:linfa.wang@duke-nus.edu.sg>)"

> <linfa.wang@duke-nus.edu.sg<mailto:linfa.wang@duke-nus.edu.sg>>

> 主题: RE: Invitation of the 7th International Symposium on Emerging  
> Viral Diseases Dear Dr Ben Hu,  
>  
> As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.  
>  
> I look forward to seeing you in Wuhan in October.  
>  
> With best regards,  
>  
> Jim  
>  
> James W. Le Duc  
> Director  
> Galveston National Laboratory  
> University of Texas Medical Branch  
> Galveston, TX 77555-0610  
> (t) 409-266-6500  
> (f) 409-266-6810  
> (m) (b)(6)  
>  
>  
>  
> From: 胡森 [mailto:huben@wh.iov.cn<mailto:huben@wh.iov.cn>]  
> Sent: Friday, June 03, 2016 2:28 AM  
> To: LeDuc, James W. <jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>  
> Cc: 石正丽 <zlishi@wh.iov.cn<mailto:zlishi@wh.iov.cn>>;  
> (b)(6)  
> Subject: Invitation of the 7th International Symposium on Emerging  
> Viral Diseases  
>  
>  
> Dear Prof. Leduc:  
>  
> The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.  
>  
> You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.  
>  
> If you have any question regarding the conference, please contact me.  
>  
> Thank you!  
>

> Best regards  
>  
>  
> Ben Hu Ph.D.  
>  
> Secretary of the 7th International Symposium on Emerging Viral  
> Diseases  
>  
> Wuhan Institute of Virology  
> Chinese Academy of Sciences  
> Wuhan 430071, P.R. China  
> Tel: 86-27-87197311  
>  
>  
>  
>  
>  
>  
>  
>  
>  
>  
>  
>  
>  
>  
><James LeDuc.jpg>  
><Benjamin Rusek.jpg>

---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Monday, September 19, 2016 9:16 AM  
**To:** '??'; LeDuc, James W.  
**Cc:** Mendoza, Imelda; David Franz  
**Subject:** RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Thank you for very much!

Kind regards,

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Sunday, September 18, 2016 9:00 AM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; David Franz; Rusek, Benjamin  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. LeDuc:

Please find the new invitation letter with the stamping of Wuhan Institute of Virology. In case Dr. Rusek will need this as well, I also get one for him

I remembered Dr. Franz had informed me that he had already submitted visa application to the consulate in DC. But if he needs one with stamping, please let me know.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016年9月14日 星期三  
收件人: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "胡犇" <huben@wh.iov.cn>  
抄送: "David Franz" <davidrf Franz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>  
主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Good, thank you. This should be much easier than the CAS invitation.

---

**From:** Mendoza, Imelda  
**Sent:** Wednesday, September 14, 2016 9:24 AM  
**To:** 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
**Cc:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>; David Franz <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for all of your help. I look forward to hearing from you next week.

Kind regards,

Imelda

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]  
**Sent:** Wednesday, September 14, 2016 9:19 AM  
**To:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>  
**Cc:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>; David Franz <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Imelda:

Got it. I will go to the administrative office of the institute for stamping on Sunday when they come back to work. I would like to do it tomorrow but no one will be available due to the holiday.

Please understand.

Kind regards

Ben

-----原始邮件-----

发件人: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>  
发送时间: 2016 年 9 月 14 日 星期三  
收件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>, "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
抄送: "David Franz" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,

I just spoke with the Consulate and what they are requesting is the invitation with the **stamp of the Wuhan Institute of Virology**.

Thanks.

Imelda

---

**From:** LeDuc, James W.

**Sent:** Wednesday, September 14, 2016 8:56 AM

**To:** 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for your prompt response. We will try to reach the Consulate for clarification, but it is very difficult to speak with anyone there. Perhaps you can start the process to obtain both, just in case.

Enjoy the Mid-Autumn Holiday!

Thank you again for all your help.

Jim

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]

**Sent:** Wednesday, September 14, 2016 8:48 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 14 日 星期三

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

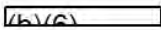
Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) 

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <BRusek@nas.edu>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrfranz@gmail.com) <davidrfranz@gmail.com>;

LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases



Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

发送时间: 2016 年 9 月 14 日 星期三

收件人: '??' <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>, "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell: (b)(6)

Fax: 001-202-334-1730

Skype: (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]  
**Sent:** Monday, September 12, 2016 8:43 PM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)); Rusek, Benjamin  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn> (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** LeDuc, James W.  
**Sent:** Thursday, September 29, 2016 11:44 AM  
**To:** Mendoza, Imelda  
**Cc:** Bente, Dennis A.  
**Subject:** FW: Program of the 7th International Symposium on Emerging Viral Diseases  
**Attachments:** ISEVD 2016 Programme\_0929.doc

Imelda, Please print attachment and include in my travel folder for the China trip.

Dennis, FYI on the agenda. Content looks pretty good.

Thanks,

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Thursday, September 29, 2016 9:20 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Subject:** Program of the 7th International Symposium on Emerging Viral Diseases

Dear Speakers:

Please find the program of the 7th International Symposium on Emerging Viral Diseases in the attached file.

Please let us know whether the scheduled time of your talk is OK for you. Also please provide us with your flight information if it is available.

Thank you and looking forward to meeting you soon in Wuhan!

Best regards

Ben Hu                      Ph.D

Research Assistant

Wuhan Institute of Virology, CAS

Secretary of the 7th International Symposium on Emerging Viral Diseases





## Program of 7<sup>th</sup> International Symposium on Emerging Viral Diseases

Date 日期	Time 时间	Content 议程
<b>Wednesday</b> <b>星期三</b> <b>Oct. 19, 2016</b> <b>10 月 19 日</b>	<b>Venue</b>	<b>Registration/报到注册</b>
	<b>地点</b>	Ground Floor, Hongshan Hotel/洪山宾馆一楼大厅
	09:00-21:00	Ground Floor, Shuaifu Hotel (Marshal Palace Hotel) /帅府饭店一楼大厅
<b>Day 1, Morning Session /第一天上午</b>		
	<b>Venue</b>	Conference Hall of the Wuhan Institute of Virology, CAS
	<b>地点</b>	2nd floor of the Institute Building 中国科学院武汉病毒研究所学术报告厅 (研究所大楼二层)
	08:30-08:40	<b>Opening Address/开幕式致词</b>
	08:40-09:05	<b>Title:</b> Peaceful co-existence of viruses and bats: an outcome of evolutionary adaptation to flight?!
	Keynote Speech 01	<b>Speaker: Linfa Wang</b> Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore
	09:05-09:30	<b>Title:</b> Mechanism underlying the high cytokine response induced by H5N1 influenza virus in mammals
	Keynote Speech 02	<b>Speaker: Wendy Barclay</b> Section of Virology, Faculty of Medicine, Imperial College London, UK
	09:30-10:00	Group Photo of Symposium Participants/与会代表合影 Coffee Break and Poster Presentation/茶歇和展板
<b>Thursday</b> <b>星期四</b> <b>Oct. 20, 2016</b> <b>10 月 20 日</b>	10:00-12:00	<b>Session 1: Epidemiology and Pathogen Discovery</b>
	10:00-10:25	<b>Title:</b> Pandemic Influenza Viruses: Biology and Transmission <b>Speaker: Kanta Subbarao</b> Laboratory of Infectious Diseases, NIAID, National Institutes of Health, Bethesda, MD, USA
	10:25-10:45	<b>Title:</b> The Market as an Influenza Risk Factor: The Animal Human Interface <b>Speaker: Yuelong Shu</b> Chinese Center for Disease Control and Prevention (China CDC), Beijing, China
	10:45-11:05	<b>Title:</b> Understanding uncultivable bat influenza viruses <b>Speaker: Wenjun Ma</b> Department of Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas, USA
	11:05-11:25	<b>Title:</b> Spread and persistence of dog rabies virus <b>Speaker: Hervé Bourhy</b> Institut Pasteur - Unit of Lyssavirus Dynamics and Host Adaptation, 25 rue du Docteur Roux, 75724 Paris Cedex 15, France
	11:25-11:40	<b>Title:</b> Newly emerging gemycircularviruses and transkingdom infection <b>Speaker: Daohong Jiang</b> State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural University, Wuhan, China

11:40-11:55 S-08	<p><b>Title:</b> Evidence of Group A rotavirus infection in bats, China</p> <p><b>Speaker: Changchun Tu</b> Military Veterinary Institute, Academy of Military Medical Sciences, Changchun, China</p>
11:55-12:10 S-09	<p><b>Title:</b> Fatal Community-acquired Pneumonia in Children Caused by Re-emergent Human Adenovirus Type 7d Associated with Higher Severity of Illness and Fatality Rate</p> <p><b>Speaker: Qiwei Zhang</b> School of Public Health, Southern Medical University, Guangzhou, China</p>
12:10-13:40	Lunch and Poster/午餐和展板
Day 1, Afternoon Session /第一天下午	
13:40-14:40	<b>Session 2: Countermeasure and Prevention</b>
13:40-14:05 S-10	<p><b>Title:</b> Peptide fusion inhibitors for prevention and treatment of MERS-CoV infection</p> <p><b>Speaker: Shibo Jiang</b> Basic Medical College and Institute of Medical Microbiology, Fudan University, Shanghai, China</p>
14:05-14:30 S-11	<p><b>Title:</b> Human Neutralizing antibodies for influenza virus</p> <p><b>Speaker: James Crowe</b> Department of Pathology, Microbiology, and Immunology, Vanderbilt University, Nashville, TN, USA</p>
14:30-14:55 S-12	<p><b>Title:</b> Nipah/Hendra Virus Passive and Active Vaccines</p> <p><b>Speaker: Christopher Broder</b> Department of Microbiology, Uniformed Services University, Bethesda, USA</p>
14:55-15:20 S-13	<p><b>Title:</b> GPCR antagonism and filoviral entry</p> <p><b>Speaker: Lijun Rong</b> Department of Microbiology and Immunology, College of Medicine, University of Illinois at Chicago, Chicago, Illinois, USA</p>
15:20-15:40 S-14	<p><b>Title:</b> Human monoclonal antibodies against emerging viruses</p> <p><b>Speaker: Dimitar Dimitrov</b> Center for Cancer Research, National Cancer Institute, NIH, Frederick, USA</p>
15:40-16:00	Coffee Break and Poster Presentation/茶歇和展板
16:00-16:20 S-15	<p><b>Title:</b> Inhibition of Replication and Pathogenesis of Coronaviruses by Targeting Viral 2'-O-Methyltransferase</p> <p><b>Speaker: Deyin Guo</b> State Key Laboratory of Virology, College of Life Sciences &amp; School of Medicine, Wuhan University, Wuhan, China</p>
16:20-16:40 S-16	<p><b>Title:</b> Subunit vaccines against MERS-CoV</p> <p><b>Speaker: Lanying Du</b> Lindsley F. Kimball Research Institute, New York Blood Center, New York, USA</p>
16:40-17:00 S-17	<p><b>Title:</b> Rapid generation of neutralizing antibodies in primates in responding to emerging viral diseases</p> <p><b>Speaker: Ling Chen</b> Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, China</p>

17:00-17:20 S-18	<p><b>Title:</b> A comparative study of the autophagy pathway during virus infection of bat (natural) and human (accidental) host cells</p> <p><b>Speaker: Eric Laing</b> Department of Microbiology, Uniformed Services University, Bethesda, MD, USA</p>
17:20-17:35 S-19	<p><b>Title:</b> International consortium for preparedness of Nations to EVD</p> <p><b>Speaker: Jean-Louis Romette</b> Aix-Marseille University, France</p>
17:35-17:50 S-20	<p><b>Title:</b> Dual Use Research of Concern and the Debate about Gain-of-Function Studies</p> <p><b>Speaker: James Le Duc</b> Galveston National Laboratory, University of Texas Medical Branch, Galveston, Texas, USA</p>
18:00-20:00	Banquet at Hujin Restaurant 湖锦酒楼晚宴

## Program of 7<sup>th</sup> International Symposium on Emerging Viral Diseases

Date 日期	Time 时间	Content 议程
<b>Day 2, Morning Session /第二天上午</b>		
<b>Friday 星期五 Oct. 21, 2016 10月21日</b>	08:30-12:00	<b>Session 3: Zika Virus</b>
		<b>Title:</b> Zika in Singapore
	08:30-08:50 S-21	<b>Speaker: Leo Yee Sin</b> Institute of Infectious Diseases & Epidemiology/Communicable Disease Centre, Tan Tock Seng Hospital, 11 Jalan Tan Tock Seng, Singapore
	08:50-09:10 S-22	<b>Title:</b> Zikavirus NS2B-NS3 protease: Crystal structure and inhibitors <b>Speaker: Rolf Hilgenfeld</b> University of Lübeck, Institute of Biochemistry, Germany
	09:10-09:30 S-23	<b>Title:</b> Structure of Zika virus NS1: association with virus infection and immune system <b>Speaker: Shi Yi</b> Institute of Microbiology, Chinese Academy of Sciences
	09:30-09:50 S-24	<b>Title:</b> To be determined <b>Speaker: Cheng-Feng Qin</b> Department of Virology, Beijing Institute of Microbiology and Epidemiology, Beijing, China
	09:50-12:10	<b>Session 4: Emerging Coronaviruses</b>
	09:50-10:15 S-25	<b>Title:</b> Antibody and T cell responses in patients with MERS and development of a murine model for lethal MERS-CoV infection <b>Speaker: Stanley Perlman</b> University of Iowa, Iowa City, IA, USA
	10:15-10:35 S-26	<b>Title:</b> MERS-CoV NS4b accessory protein is a phosphodiesterase that antagonizes host response <b>Speaker: Susan Weiss</b> Departments of Microbiology and Biology, University of Pennsylvania, Philadelphia, PA, USA
	10:35-10:50	Coffee Break and Poster Presentation/茶歇和展板
	10:50-11:15 S-27	<b>Title:</b> Investigating emerging coronavirus susceptibility using the Collaborative Cross <b>Speaker: Lisa Gralinski</b> Department of Epidemiology, University of North Carolina, Chapel Hill, USA
	11:15-11:35 S-28	<b>Title:</b> Airway Memory CD4+ T Cells Mediate Protective Immunity against Emerging Respiratory Coronaviruses <b>Speaker: Jincun Zhao</b> Guangzhou Institute of Respiratory Disease, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China

11:35-11:50  
S-29 **Title:** Detection and Prevalence Patterns of Group D Betacoronaviruses in Lyle's flying fox (*Pteropus lylei*) in Thailand  
**Speaker:** Supaporn Wacharapluesadee  
Chulalongkorn Hospital, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

11:50-12:10  
S-30 **Title:** To be determined  
**Speaker:** Leiping Zeng  
Key Laboratory of Special Pathogens, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China

12:10-13:40 Lunch/午餐

## Day 2, Afternoon Session /第二天下午

### 13:40-17:30 Session 5: Virus and Host Interaction

13:40-14:05  
S-31 **Title:** Innate immunity to Crimean-Congo Hemorrhagic and subversion of the antiviral responses  
**Speaker:** Eric Bergeron  
Viral Special Pathogens Branch, Centers for Disease Control and Prevention, Atlanta GA, USA

14:05-14:30  
S-32 **Title:** Identification of the mechanisms of entry of three different hemorrhagic fever viruses  
**Speaker:** Grogery Neveu  
CIRI - International Center for Infectiology Research, Lyon, France

14:30-14:50  
S-33 **Title:** A European Non-Human Primate Model of Ebola Disease: Infection of Mauritian Cynomolgus Macaques and Analysis of Virus Populations  
**Speaker:** Hervé Raoul  
INSERM, Laboratoire P4 Jean Mérieux, Lyon, France

14:50-15:10  
S-34 **Title:** Structural basis of viral RNA-dependent RNA polymerase catalysis and translocation  
**Speaker:** Peng Gong  
Key Laboratory of Special Pathogens and Biosafety, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China

15:10-15:30  
S-35 **Title:** Assembly and Beyond: A Structural View of Bunyaviruses Nucleocapsid Proteins  
**Speaker:** Zhi-Yong Lou  
School of Medicine, Tsinghua University, Beijing, China

### 15:30-15:50 Coffee Break 茶歇

15:50-16:10  
S-36 **Title:** The Role of PLK3 in Prion Disease  
**Speaker:** Xiaoping Dong  
State Key Laboratory for Infectious Disease Prevention and Control, National Institute for Viral Disease Control and Prevention, China CDC

16:10-16:30  
S-37 **Title:** Endothelial cell tropism is a determinant of H5N1 pathogenesis in mammalian species  
**Speaker:** Balaji Manicassamy  
Department of Microbiology, The University of Chicago, Chicago, IL, USA

	<b>Title:</b> Cofilin is a clinical marker of HIV-mediated CD4 T cell dysfunction
16:30-16:50	<b>Speaker: Yuntao Wu</b>
S-38	National Center for Biodefense and Infectious Diseases, School of System Biology, George Mason University, Manassas, VA 20110, USA
	<b>Title:</b> Proteomic profiling of HIV infected human primary CD4 T cells identifies novel restriction factors for HIV
16:50-17:10	
S-39	<b>Speaker: Xu Tan</b>
	School of Pharmaceutical Sciences, Tsinghua University, Beijing, China
	<b>Title:</b> KDEL Receptor Assists DENV to Exit the Endoplasmic Reticulum
17:10-17:30	<b>Speaker: Peigang Wang</b>
S-40	Department of microbiology and parasitology, School of basic medical science, Capital Medical University
	<b>Title:</b> Cooperation of Lyssavirus P and M proteins on Jak/Stat and NF-kB pathways regulation
17:30-17:50	
S-41	<b>Speaker: Florian Sonthonnax</b>
	Institut Pasteur - Unit of Lyssavirus Dynamics and Host Adaptation, Paris, France
17:50-18:00	<b>Closing Remarks</b>
18:00-19:00	Dinner/晚餐

[PAGE \\* MERGEFORMAT]

---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Friday, September 30, 2016 8:04 PM  
**To:** LeDuc, James W.  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

May I ask you whether you agree that your talk be switched to the afternoon in the 21st October? As a speaker in the that session has a conflicting schedule in his school and he requested to give his talk in 20th.

Thank you!

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 9 月 30 日 星期五  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>  
主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I am pleased to inform you that I have received my visa for the upcoming trip to Wuhan and attached is my travel itinerary. As indicated previously, I will be traveling from Beijing to Wuhan with Dave Franz and Ben Rusek and we should all be arriving on the Air China flight (CA1341) arriving at 9:50 PM Tuesday evening, 18 October (Terminal 2). We would welcome your suggestions for transportation from the airport to the Hotel following our arrival.

I look forward to seeing you soon! And thank you for the program agenda. It looks like quite an interesting meeting with several excellent participants.

Best regards,

Jim



James W. Le Duc, Ph.D.

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** 石正丽 <[zlshi@wh.iov.cn](mailto:zlshi@wh.iov.cn)>; [\(b\)\(6\)](#)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** LeDuc, James W.  
**Sent:** Friday, September 30, 2016 8:13 PM  
**To:** 胡犇  
**Subject:** Re: Invitation of the 7th International Symposium on Emerging Viral Diseases

I'm happy to change as needed. Thank you.

Jim

Sent from my iPhone

On Sep 30, 2016, at 8:04 PM, 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)> wrote:

Dear Prof. Leduc:

May I ask you whether you agree that your talk be switched to the afternoon in the 21st October? As a speaker in the that session has a conflicting schedule in his school and he requested to give his talk in 20th.

Thank you!

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 9 月 30 日 星期五

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Benjamin Rusek ([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I am pleased to inform you that I have received my visa for the upcoming trip to Wuhan and attached is my travel itinerary. As indicated previously, I will be traveling from Beijing to Wuhan with Dave Franz and Ben Rusek and we should all be arriving on the Air China flight (CA1341) arriving at 9:50 PM Tuesday evening, 18 October (Terminal 2). We would welcome your suggestions for transportation from the airport to the Hotel following our arrival.

I look forward to seeing you soon! And thank you for the program agenda. It looks like quite an interesting meeting with several excellent participants.

Best regards,

Jim

James W. Le Duc, Ph.D.

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) b6/b7C

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016年8月2日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!



Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Friday, September 30, 2016 8:15 PM  
**To:** LeDuc, James W.  
**Subject:** Re: Re: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thanks lot, Prof. LeDuc!

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 10 月 1 日 星期六  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送:  
主题: Re: Invitation of the 7th International Symposium on Emerging Viral Diseases

I'm happy to change as needed. Thank you.

Jim

Sent from my iPhone

On Sep 30, 2016, at 8:04 PM, 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)> wrote:

Dear Prof. Leduc:

May I ask you whether you agree that your talk be switched to the afternoon in the 21st October? As a speaker in the that session has a conflicting schedule in his school and he requested to give his talk in 20th.

Thank you!

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
发送时间: 2016 年 9 月 30 日 星期五  
收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Benjamin Rusek  
([BRusek@nas.edu](mailto:BRusek@nas.edu))" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))"  
<[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging  
Viral Diseases

Dear Ben,

I am pleased to inform you that I have received my visa for the upcoming trip to Wuhan and attached is my travel itinerary. As indicated previously, I will be traveling from Beijing to Wuhan with Dave Franz and Ben Rusek and we should all be arriving on the Air China flight (CA1341) arriving at 9:50 PM Tuesday evening, 18 October (Terminal 2). We would welcome your suggestions for transportation from the airport to the Hotel following our arrival.

I look forward to seeing you soon! And thank you for the program agenda. It looks like quite an interesting meeting with several excellent participants.

Best regards,

Jim

James W. Le Duc, Ph.D.

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Wednesday, October 12, 2016 8:53 PM  
**To:** '??'; 'yangxiao@cicir.ac.cn'  
**Cc:** 'Dave Franz (davidrf Franz@gmail.com)'; LeDuc, James W.  
**Subject:** National Academy of Sciences visit to Beijing  
**Attachments:** CAS NAS Bio Meeting Program and Slides Agenda Only.pdf

Greetings Dr. Yang,

My U.S. National Academy of Sciences colleagues Dr. David Franz, Dr. James LeDuc and I will visit Beijing early next week to lay the foundation to hold a second meeting between Chinese and U.S. experts on the challenges of emerging infections, laboratory safety, and global health security. You may recall that the first meeting was held in Beijing in late 2015 (please see the attached agenda). This second meeting will likely be held in Wuhan in early 2017.

We enjoyed talking with you in 2015 and we would be grateful if you can make time to meet with us so we can hear your thoughts regarding the content and substance of the next proposed meeting. Dr. Franz, Dr. LeDuc and I could meet with you again at your office or another location if you are available. Would sometime on Tuesday morning October 18th work? We could also meet on Monday. We look forward to hearing back from you.

Kind regards,

Benjamin J. Rusek  
Senior Program Officer  
Policy and Global Affairs Division  
The U.S. National Academy of Sciences, Engineering and Medicine  
Phone: 001-202-334-3975  
Cell: (b)(6)  
Fax: 001-202-334-1730  
Skype: (b)(6)

-----Original Message-----

**From:** 杨霄 [mailto:chyoung@pku.edu.cn]  
**Sent:** Wednesday, February 11, 2015 8:02 PM  
**To:** Rusek, Benjamin  
**Cc:** 'Dave Franz (davidrf Franz@gmail.com)'  
**Subject:** Re: RE: Re:RE: Re:RE: National Academy of Sciences

Could we make the talk a little bit earlier, at about 9:30 AM tomorrow? I have also invited the deputy director of our Institute of Security and Arms Control, Dr. Guo Xiaobing. He will join our meeting and leave at 10:30. So could we make the talk around 9:30 to 10:30? Another information is we will use the meeting room 109 in CICIR Section B. I also add a map to CICIR in the attachment. See if you have any other need.  
Best,

Yang Xiao



> -----原始邮件-----

> 发件人: "Rusek, Benjamin" <BRusek@nas.edu>

> 发送时间: 2015-02-06 09:05:58 (星期五)

> 收件人: 'chyoung' <chyoung@pku.edu.cn>

> 抄送: "'Dave Franz (davidrf Franz@gmail.com)'" <davidrf Franz@gmail.com>

> 主题: RE: Re:RE: Re:RE: National Academy of Sciences

>

> The morning of the 13th at 10:00 AM sounds great. Thank you for adjusting your schedule. I will email you next week after we arrive in Beijing.

>

> Kind regards,

>

> Benjamin J. Rusek

> U.S. National Academy of Sciences

> 1-202-334-3975

>

>

> -----Original Message-----

> From: chyoung [mailto:chyoung@pku.edu.cn]

> Sent: Thursday, February 05, 2015 5:24 AM

> To: Rusek, Benjamin

> Cc: 'Dave Franz (davidrf Franz@gmail.com)'

> Subject: Re:RE: Re:RE: National Academy of Sciences

>

> Never mind. So what about the morning of 13? 10:00 am would be OK. The address of CICIR is Wanshousi A2, Haidian, Beijing. I will send you a road map to CICIR the next day.

>

>

> 在 2015-02-05 08:09:46, "Rusek, Benjamin" <BRusek@nas.edu> 写道 :

>

> >Actually would it be possible to meet at CICIR on the 12th or the morning of the 13? Sorry for the change.

> >

> >Kind regards,

> >

> >Benjamin J. Rusek

> >U.S. National Academy of Sciences

> >1-202-334-3975

> >

> >-----Original Message-----

> >From: Rusek, Benjamin

> >Sent: Tuesday, February 03, 2015 7:18 PM

> >To: 'chyoung'

> >Cc: Dave Franz (davidrf Franz@gmail.com)

> >Subject: RE: Re:RE: National Academy of Sciences

> >

> >Wonderful, the morning of Feb 11 sounds great. How about 9:30 or 10:00 AM?

> >

> >Could you send us the CICIR campus address?

> >

> >Kind regards,

>>  
>> Benjamin J. Rusek  
>> U.S. National Academy of Sciences  
>> 1-202-334-3975  
>> (b)(6) (cell)  
>>  
>>-----Original Message-----  
>> From: chyoung [mailto:chyoung@pku.edu.cn]  
>> Sent: Monday, February 02, 2015 11:34 PM  
>> To: Rusek, Benjamin  
>> Cc: Dave Franz (davidrf Franz@gmail.com)  
>> Subject: Re:RE: National Academy of Sciences  
>>  
>> Dear Mr. Benjamin Rusek,  
>>  
>> Thanks for your information and warmly welcome to Beijing. I'm quite interested in the subject and hoping to take the dialogue with you.  
>> I will be available on 11 February morning. If you would like to visit CICIR, I will be pleasure to arrange the talk at the Cafe in our campus.  
>> Best wishes!  
>>  
>> Yang Xiao  
>>  
>>  
>>  
>> 在 2015-01-29 12:36:51, "Rusek, Benjamin" <BRusek@nas.edu> 写信 :  
>>  
>>> Greetings Mr. Yang Xiao,  
>>>  
>>>  
>>>  
>>> My U.S. National Academy of Sciences colleague Dr. David Franz and I will visit Beijing during the second week of February 2015 to lay the foundation for a joint meeting between Chinese and U.S. experts on the challenges of emerging infections, laboratory safety, and global health security to be held in Beijing later in calendar year 2015 (please see the attached document).  
>>>  
>>>  
>>>  
>>> We would be grateful if you can make time to meet with us so we can hear your thoughts regarding the content and substance of the proposed meeting. Dr. Franz and I could meet with you on either February 11 or 12 at your office or another location if you are available. We look forward to hearing back from you.  
>>>  
>>>  
>>>  
>>> Kind regards,  
>>>  
>>>  
>>>  
>>> Benjamin J. Rusek  
>>>  
>>> U.S. National Academy of Sciences  
>>>

>>>1-202-334-3975

>>>

>>>

>>>

>>>From: Li Bin [mailto:libin@mail.tsinghua.edu.cn]

>>>Sent: Thursday, December 18, 2014 3:22 PM

>>>To: chen kai

>>>Cc: liu xiaoming; Rusek, Benjamin; ChYoung

>>>Subject: National Academy of Sciences

>>>

>>>

>>>

>>>To: Mr. Chen Kai, Vice President and Secretary General, China Arms Control and Disarmament Association

>>>

>>>Cc: Dr. Benjamin Rusek, Program Officer, Committee on International Security and Arms Control, National Academy of Sciences

>>>

>>> Mr. Liu Xiaoming, Division Director, China Arms Control and Disarmament Association

>>>

>>> Mr. Yang Xiao, Research Fellow, China Institute of Contemporary International Relations

>>>

>>>

>>>

>>>Dear Mr. Chen Kai,

>>>

>>> I wish you had a fruitful visit to Atlanta and had a pleasant trip back home. Dr. Benjamin Rusek, Program Officer, Committee on International Security and Arms Control, National Academy of Sciences, will lead a delegation of American experts on bio security to Beijing in February to have dialogues with their traditional counterparts under Chinese People's Association for Peace and Disarmament. Dr. Rusek has interests in discussions with more Chinese organizations and experts on bio security and related issues. You have long experiences in bio security diplomacy and may help Dr. Rusek to develop new channels of dialogues in China.

>>>

>>> Mr. Yang Xiao (cced), my former student, is a biologist by training working at China Institute of Contemporary International Relations on arms control. He may also help if his organization is interested in the dialogues.

>>>

>>> Happy holiday season.

>>>

>>> Li Bin

>>>

>>>

>>>



Chinese Academy of Sciences

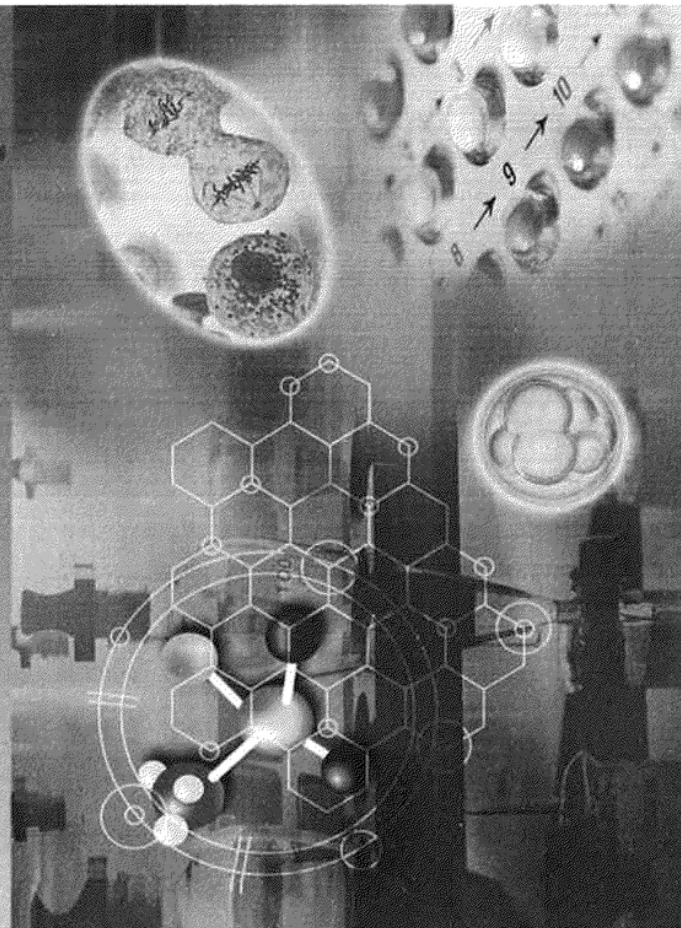
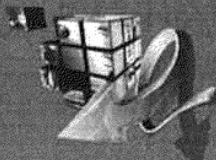
The National Academies of Sciences,  
Engineering, and Medicine  
SCIENCES-ENGINEERING-MEDICINE

**CAS-NAS Workshop on the Challenges of Emerging Infections,  
Laboratory Safety, and Global Health Security**

**29-30 September 2015**

**Beijing, China**

## Programme Handbook



**CAS-NAS Workshop on the Challenges of Emerging  
Infections, Laboratory Safety, and Global Health Security**

## Table of Contents

Scientific Programme	3
Brief Introduction of Sessions and Speakers	6
Notes	18
Contacts	22
Location Map	23

### Organized by:

Chinese Academy of Sciences

The National Academies of Sciences, Engineering, and Medicine

### Co-organized by:

Beijing Institutes of Life Science, CAS

The Institute of Microbiology, CAS

Beijing, China September 29-30, 2015

## Scientific Programme

E301, Institute of Microbiology, CAS  
NO.1 Beichen West Road, Chaoyang District, Beijing

Sep. 29, 2015 AM

08:30-09:00	Registration
09:00-09:15	Opening Remarks by Yaping Zhang & Diane Griffin Chair: George Fu Gao
09:15-10:30	Session I: The "Safety-Security-Regulation-Progress" Chair: George Fu Gao
1. American Speaker	David Franz Finding the Balance Among Safety, Security, Regulation, and Progress: The U.S. Experience
2. Chinese Speaker	Qiang Wei Progress of Laboratory Biosafety Management in China
Panelists	David Franz, Qiang Wei, Diane Griffin & George Fu Gao
10:30-11:00	Tea break, group photo
11:00-12:30	Session II: Influenza Chair: Peter Palese & Yuelong Shu
1. American Speaker	Peter Palese Influenza: Paths to a Better Vaccine?
2. Chinese Speaker	Yuelong Shu Genetic tuning of avian influenza A (H7N9) virus promotes viral fitness within different species
3. Chinese Speaker	Yi Shi "Host jump" of avian flu
4. Chinese Speaker	Juan Pu The continue evolution and threat of H5 and H9N2 avian influenza viruses in China
Panelists	Peter Palese, Yuelong Shu, Yi Shi & Juan Pu
12:30-14:00	Lunch

Beijing, China September 29-30, 2015

Sep. 29, 2015 PM

14:00-15:30	Session III: Ebola and beyond Chair: Thomas Ksiazek & Wuchun Cao
1. American Speaker	Thomas Ksiazek Ebola: Sustainable Austere Environment Laboratories
2. Chinese Speaker	Wuchun Cao Emerging Tick-borne Infections in China: An Increasing Public Health Threat
3. Chinese Speaker	Di Liu Intra-host dynamics of Ebola virus
4. Chinese Speaker	Yigang Tong Genetic diversity and evolutionary dynamics of Ebola virus in Sierra Leone
Panelists	Thomas Ksiazek, Wuchun Cao, Di Liu, Yigang Tong, Jiafu Jiang & George Fu Gao
15:30-16:00	Tea break
16:00-17:30	Session IV: Middle East Respiratory Syndrome Chair: Ralph Baric & Wenjie Tan
1. American Speaker	Ralph Baric MERS: Genetic Systems and Models
2. Chinese Speaker	Zhengli Shi Bat coronaviruses associated with human diseases
3. Chinese Speaker	Wenjie Tan MERS-CoV vaccine development: Test in China CDC
4. Chinese Speaker	Deyin Guo Development of broad-spectrum inhibitors by targeting coronavirus methyltransferases
Panelists	Ralph Baric, Zhengli Shi, Wenjie Tan, Deyin Guo & George Fu Gao
17:30-18:00	Review of Day 1 and plan for Day 2 Chair: George Fu Gao
18:00-20:00	Dinner

Beijing, China September 29-30, 2015



Sep. 30, 2015 AM

09:00-10:00		Session V: Gain of Function Research Chair: David Franz & Wenjun Liu	
1. American Speaker	David Franz	NAS Gain-of-Function Meeting Report (The scientists' view)	
2. Chinese Speaker	Wenjun Liu	Phosphorylation regulates the replication of influenza A virus	
Panelists	David Franz, Wenjun Liu, Zhongliang Ma, Li Ruan & Chengfeng Qin		
10:00-10:30	Tea break		
10:30-12:00	Session VI: High-Containment Labs...Safe, Secure, Productive, and Sustainable Chair: Thomas Ksiazek & Zhiming Yuan		
1. American Speaker	Thomas Ksiazek	High Containment Laboratories: Putting the pieces of laboratory safety and global health security together	
2. Chinese Speaker	Zhiming Yuan	Biosafety management of high-level biosafety laboratory for emerging disease control	
3. Chinese Speaker	Mifang Liang	laboratory risk assessment for responding to emerging infectious disease	
Panelists	Thomas Ksiazek, Zhiming Yuan, Mifang Liang & Qiang Wei		
12:00-13:30	Lunch		

Sep. 30, 2015 PM

13:30-15:00		Session VII: Areas for Enhanced Cooperation Chair: Diane Griffin & George Fu Gao	
1. American Speaker	Diane Griffin	Possible roles for CAS and NAS in Enhancing Cooperation on these topics	
2. Chinese Speaker	George F. Gao	Global health & China's role	
Panel Lists	Diane Griffin, George Fu Gao, Benjamin Rusek, Zhengli Shi & Deyin Guo		
15:00-15:30	Closing Remarks Chair : George Fu Gao		

Beijing, China September 29-30, 2015

## Brief Introduction of Sessions and Speakers

### Vice Presidents:



Dr.

Yaping Zhang, Ph.D., is the Vice President of the Chinese Academy of Sciences (CAS). As a research professor of Kunming Institute of Zoology, he has been focusing his research on molecular evolution and genome biodiversity. His investigations involve the correlated areas: molecular phylogenetics; molecular ecology and conservation genetics; human genetics and evolution; origin of domestic animals and artificial selection; genome diversity and evolution. Dr. Zhang has published more than 300 publications in SCI journals and is the author and co-author of five books. He was elected member of American Society of Human Genetics in 1996, the Society for Molecular Biology and Evolution in 1997 and then American Genetic Association in 1998. He is also elected Vice President of Chinese Society of Genetics in 2004, Vice President of Chinese Society of Zoology in 2005, and President of Yunnan Association for Science and Technology in 2008. Dr. Zhang has won dozens of national science prizes in China, including Ho Leung Ho Lee Prize for Science and Technology by Ho Leung Ho Lee Foundation in 2004. Dr. Zhang received his Ph.D. degree from Kunming Zoology Institute of CAS and was a post-doctoral fellow at Zoological Society of San Diego, Center for Reproduction of Endangered Species, USA. He was elected CAS member in 2003 and fellow of Third World Academy of Sciences (TWAS) in 2007.

### Dr. Diane Griffin



Diane E. Griffin, M.D., Ph.D., is the Vice President of the National Academy of Sciences and Professor and Alfred and Jill Sommer Chair of the W. Harry Haston Department of Molecular Microbiology and Immunology at the Johns Hopkins University. Dr. Griffin focuses her work on alphaviruses, acute encephalitis, measles, and malaria. She has identified determinants of virus virulence and mechanisms of noncytolytic clearance of virus from infected neurons. She is also working on the effect of measles virus infection and immune activation in response to infection on the immune system. In Zambia, she and her colleagues are examining the effect of HIV infection on measles and measles virus vaccination. She is a past president of the American Society for Virology, Association of Medical School Microbiology Chairs, and American Society for Microbiology, and a member of the American Academy of Microbiology. She was elected to the National Academy of Sciences and the Institute of Medicine and serves on the councils for both. Dr. Griffin earned a biology degree from Augustana College, followed by an M.D. and a Ph.D. from Stanford University. She completed her residency in Internal Medicine at Stanford University Hospital.

### Executive Chair:



### Dr. George Fu Gao

George Fu Gao, DPhil (Oxon), is the Director and Professor in CAS Key Laboratory of Pathogenic Microbiology and Immunology, Institute of Microbiology, Chinese Academy of Sciences. He is also the Vice President of Beijing Institutes of Life Science, Chinese Academy of Sciences, and Deputy Director-General of Chinese Center for Disease Control and Prevention (China CDC). His research is focusing on mechanisms of interspecies transmission ("host jump") of pathogens, especially interaction between the enveloped viruses and host, and molecular immune recognition. He has published more than 330 refereed papers. He was selected in the Chinese Academy of Sciences "Hundred Talents" program in 2004, and got National Natural Science Foundation of China (NSFC) Distinguished Young Scholar title in 2005. He is the chief scientist of two consecutive 973 project, "mechanism of interspecies transmission of viral pathogens" (2005, 2011), and a leading principal investigator of the NSFC Innovative Research Group. He is also a steering committee member of International Consortium of Anti-Virals (ICAV), and visiting professor in Oxford University, UK. He has been awarded TWAS prizes in Medical Sciences in 2012, and been awarded Nikkei Asia Prize in 2014. He obtained his Ph.D (DPhil) degree in 1995 from Oxford University, UK. He was elected CAS member in 2013, fellow of The World Academy of Sciences (TWAS) in 2014 and fellow of American Academy of Microbiology (AAM) in 2015.

Beijing, China September 29-30, 2015

## Session I: The "Safety-Security-Regulation-Progress"

### Conundrum:

*This session will touch on issues associated with high-containment labs globally, but focus on policy issues that are pertinent to labs in the United States and China. High containment laboratories are being created for a variety of purposes including: human health/public health, animal health, agriculture, basic research, including synthetic biology, product development, test and evaluation, and security/forensics. High containment laboratories are managed primarily by governments, including health, agriculture, defense, and other ministries, but also in some cases by academia and commercial industry. The proliferation of high containment laboratories underscores the importance of developing a biological risk management approach that facilitates research and public health in enhancing biological safety and laboratory biological security in both new and existing facilities. The speakers will outline Chinese and U.S. issues related to the balance between safety, security, and progress. Speakers will introduce the concept of achieving a balance between safety, regulation, and advancing life science research on dangerous pathogens.*



**Dr. David Franz**

David R. Franz, DVM, Ph.D., holds an adjunct appointment as Professor for the Department of Diagnostic Medicine and Pathobiology at the College of Veterinary Medicine, Kansas State University. His current focus and research relates to the role of international engagement in the life sciences as a component of national security policy. Dr. Franz holds a DVM from Kansas State University and a Ph.D. in Physiology from Baylor College of Medicine. Dr. Franz served in the U.S. Army Medical Research and Materiel Command for 23 of 27 years on active duty and retired as Colonel. He served as Commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) and as Deputy Commander of the Medical Research and Materiel Command. Dr. Franz was the Chief Inspector on three United Nations Special Commission biological warfare inspection missions to Iraq. He also served as a member of the first two U.S.-U.K. teams that visited Russia in support of the Trilateral Joint Statement on Biological Weapons and as a member of the Trilateral Experts' Committee for biological weapons negotiations. Dr. Franz was Technical Editor for the Textbook of Military Medicine on Medical Aspects of Chemical and Biological Warfare released in 1997. Dr. Franz has co-chaired, chaired or served as a member on over twenty NAS committees.



**Dr. Qiang Wei**

Qiang Wei, Ph.D., Professor, is the deputy director of Office for Laboratory Management, Chinese Center for Disease Control and Prevention (China CDC). In Nov 2004 with the enacting of the Regulation on Biosafety Management of Pathogenic Microbe Labs by the State Council, Dr. Wei has been engaging in the laboratory biosafety management and related research working field since that time. Dr. Wei participates in several drafting working of regulations and standards regarding biosafety management issued by National Health and Family Planning Commission, PRC, and China National Accreditation Service for Conformity Assessment.

**Dr. Diane Griffin (See her introduction on page 6)**

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

## Session II: Influenza

### Conundrum:

*Seasonal influenza remains a major cause of morbidity and mortality worldwide annually and the specter of pandemic flu remains with us. There has been a great deal of excellent basic and applied research conducted both in China and the United States in recent years. This session will touch on issues associated with the virus, the disease load in both our countries and the enormous strides being made to both understand viral pathogenesis and develop medical countermeasures.*



**Dr. Peter Palese**

Peter Palese, Ph.D. (NAS, IOM), is Professor of Microbiology and Chair of the Department of Microbiology at the Mount Sinai School of Medicine in New York. He has over 270 scientific publications that include research on the replication of RNA-containing viruses with a special emphasis on influenza viruses, which are negative-strand RNA viruses. Specifically, he established the first genetic maps for influenza A, B and C viruses, identified the function of several viral genes, and defined the mechanism of neuraminidase inhibitors (which are now FDA-approved antivirals). Dr. Palese also pioneered the field of reverse genetics for negative strand RNA viruses, which allows the introduction of site-specific mutations into the genomes of these viruses. This technique is crucial for the study of the structure/function relationships of viral genes, for investigation of viral pathogenicity and for development and manufacture of novel vaccines. In addition, an improvement of the technique has been effectively used by him and his colleagues to reconstruct and study the pathogenicity of the highly virulent but extinct 1918 pandemic influenza virus. His recent work in collaboration with Garcia-Sastre has revealed that most negative-strand RNA viruses possess proteins with interferon antagonist activity, enabling them to counteract the antiviral response of the infected host. Dr. Palese was elected to the National Academy of Sciences in 2000 for his seminal studies on influenza viruses. At present he serves on the editorial board for the Proceedings of the National Academy of Sciences and as an editor for the Journal of Virology. Dr. Palese was president of the Harvey Society in 2004, president of the American Society for Virology in 2005 and he was a recipient of the Robert Koch Prize in 2006 and of the Charles C. Shepard Science Award in 2008.



**Dr. Yuelong Shu**

Yuelong Shu, Ph.D., is the director of WHO Collaborating Center for Reference and Research on Influenza (WHO CC), director of Chinese National Influenza Centre (CNIC) and deputy director of National Institute for Viral Disease Control and Prevention (NIVDC) at Chinese Center for Disease Control and Prevention (China CDC). His research area is mainly on molecular evolution, the mechanisms of interspecies transmission, infectivity, and pathogenicity of influenza viruses, and the new detection techniques development and vaccine and drug-related research. In 2013, he firstly discovered a novel H7N9 avian influenza virus caused severe human infection in China. He leads the studies on the biological features of the H7N9 avian influenza virus; the findings provided scientific insights for the infectivity, transmissibility and pathogenesis of the novel virus. He successfully developed diagnosis kits for H7N9 virus to improve the clinical treatment. He also firstly identified the avian influenza H10N8 and H5N6 viruses caused human infection. He made great contributions to the prevention and control of H5N1 and pandemic H1N1 2009 such as diagnosis kits development.

Beijing, China September 29-30, 2015

**Dr. Yi Shi**



Yi Shi, Ph.D., is an associate professor of structural biology at Beijing Institutes of Life Science, Chinese Academy of Sciences(CAS), Beijing, China. He focuses on the molecular interaction between pathogen and host, especially molecular mechanism of interspecies transmission of influenza viruses, and also molecular recognition by immune molecules.

**Dr. Juan Pu (On behalf of Dr. Jinhua Liu)**



Juan Pu, Ph.D., is an associate Professor of Key Laboratory of Animal Epidemiology and Zoonosis, College of Veterinary Medicine, China Agricultural University. Dr. Pu's interests include the phylogeny, antigenicity, infectivity and interspecies transmission of avian influenza virus. Dr. Pu received her Ph.D in Preventive Veterinary Medicine, China Agricultural University in 2008 and worked as a visiting scientist at St. Jude Children's Research Hospital during 2013-2014.

**Dr. Jinhua Liu**



Jinhua Liu, Ph.D., is a Professor of Key Laboratory of Animal Epidemiology and Zoonosis, College of Veterinary Medicine, China Agricultural University. He is Chair of Preventive Veterinary Medicine, College of Veterinary Medicine. Dr. Liu focuses his work on avian influenza, in particular the epidemiology and molecular epidemiology, and pathogenicity mechanism of avian influenza virus. He is the first in identifying H5N1 viruses in migratory birds in Qinghai Lake in 2005. He also showed the epidemic trends of H9N2 and H5N1 viruses in China and found that evolution of the single H9N2 influenza genotype that facilitated the genesis of the novel H7N9 virus. His group also evaluated the risk of the novel clade 2.3.4.4 H5 virus emerged in worldwide. Dr. Liu received his Ph.D in Preventive Veterinary Medicine, China Agricultural University in 1997 and had the post-doctoral training at Hokkaido University in Japan during 2000-2002.

Beijing, China September 29-30, 2015

**Session III: Ebola and beyond**

**Conundrum:**

*Ebola, once a disease of the African bush, occasionally jumping from animals to a few humans, demonstrated itself as a powerful and devastating force in urban West Africa in the last year. Both China and the United States—while little impacted directly—provided support to the region and continue to assist even after the outbreak is mostly contained. This session will touch on issues associated with the virus, the outbreak, and the way ahead as we work to prepare for this virus and others globally.*

**Dr. Thomas Ksiazek**



Thomas Ksiazek, Ph.D., is the director of high containment laboratory operations for the Galveston National Laboratory at the University of Texas Medical Branch. In addition to his work for the Galveston National Laboratory, he is a professor in the departments of pathology and microbiology and immunology at the University of Texas Medical Branch. Dr. Ksiazek is also director of the National Biodefense Training Center and a world-renowned virus expert with 40 years of experience on the front lines of some of the worst outbreaks the world has ever seen. Before coming to the medical branch, he was chief of the Special Pathogens Branch at the CDC in Atlanta where he coordinated outbreak and control responses to especially dangerous pathogens such as Ebola, Marburg and SARS. He was one of the discoverers of the SARS virus. Through the years, he has played a significant role in disease discovery and outbreak response efforts in Asia, Africa, South America and the Middle East. He has a bachelor's degree in biological sciences and a DVM from Kansas State University, a master's degree in virology from the University of Wisconsin, Madison, and a Ph.D. in epidemiology/virology from the University of California, Berkeley. He is the author of more than 350 research papers.

**Dr. Wuchun Cao**



Wuchun Cao, Ph.D., received a medical degree from Shandong Medical University in 1985. After getting a WHO fellowship in 1990, he was trained in Epidemiology of Infectious Diseases at the Faculty of Tropical Medicine, Mahidol University, and enrolled the Master program in Health Economics at Chulalongkorn University, Bangkok, Thailand. Then he transferred to Erasmus University, Rotterdam, the Netherlands, where he received his M.Sc and Ph.D degrees. Since returning to China, he has been working at Institute of Microbiology and Epidemiology (IME), Academy of Military Medical Sciences (AMMS), first as a postdoctoral fellow and subsequently as an associate professor and a professor. He worked as a visiting scholar in Institute of Public Health, Cambridge University, UK and Karolinska Institute, Stockholm, Sweden. He is currently a professor of Microbiology and Epidemiology, and appointed as the general director of IME, AMMS and the director of the State Key Laboratory of Pathogen and Biosecurity. His research interests are epidemiology and control of infectious diseases, especially emerging infectious diseases, molecular spatial epidemiology and bio-defense. He has published over 300 papers among which 176 were published in SCI journals with a total Impact Factor of 1002. He was awarded the First Class National Prize for Progress in Science and Technology, China in 2011. He is the members or standing members of 25 scientific associations or consulting committees, and editing members of 15 national scientific journals.

Beijing, China September 29-30, 2015



**Dr. Di Liu**



Di Liu, Ph.D., is a Professor of the Institute of Microbiology, Chinese Academy of Sciences. His research focuses on applying bioinformatics approaches and evolution models to study transmission and evolutionary dynamics of pathogens of emerging infectious diseases. In recent studies, he has clarified the origin and transmission dynamics of the novel H7N9 avian influenza virus and unraveled the diversity and dynamics of the Ebola virus in Sierra Leone, 2014. Dr. Liu received his bachelor's degree in biophysics and Ph.D. in bioinformatics from Peking University and was a post-doctoral fellow at the Institute of Microbiology, Chinese Academy of Sciences.

**Dr. Yigang Tong**



Yigang Tong, Ph.D., graduated from Fudan University and got his Ph.D. degree in the Academy of Military Medical Sciences. He received postdoctoral training in the University of British Columbia (UBC), where he received Michael Smith Award. He is currently a professor in State Key Laboratory of Pathogen and Biosecurity. He has published more than 70 papers in international journals such as Nature, Journal of Virology, Journal of General Virology, Emerging Infectious Diseases, Journal of Biological Chemistry, etc. His major research interests are etiologic agents of emerging infectious diseases, high throughput sequencing techniques and bioinformatics approaches for novel pathogen identification and characterization, and bacteriophage based prevention and treatment of multi-drug resistance bacterial infections. He has invented a PCR-based technique to clone full-length cDNA of multiple exons blood cells without mRNA preparation and reverse transcription. He discovered that the high frequency reads in deep sequencing data represents the terminal sequences of the sequenced linear genome, which provide a cheap and convenient method for identification of bacteriophage genome termini. After the outbreak of Ebola epidemic in West Africa, he went to Sierra Leone as the Chief Scientist with the third batch of Chinese Medical and Testing team. Besides the Ebola testing work, he and his team sequenced hundreds of Ebola samples and got 175 full length genome sequences of the ebola viruses. The results were published online on Nature magazine in May 2015.

**Dr. Jiafu Jiang**



Jiafu Jiang, Ph.D., is an associate professor of Beijing Institute of Microbiology and Epidemiology. His current research has focused on the epidemiology study of rodent and tick borne emerging infectious disease that have important public health implications, including hemorrhagic fever with renal syndrome, anaplasmosis, babesiosis infection, rickettsiosis etc. In recent studies, he provided evidence of epidemiological and clinical feature of confirmed and non-confirmed Ebola virus disease (EVD) patients, as well as aspects combining laboratory and the clinical data in 2014 EVD outbreak in western Africa based on his work experience in Sierra Leone. At recently years, as first author or corresponding author, he has published 12 papers in the international peer-reviewed medical journals such as Virus Res, Clin Microbiol Infect, Emerg Infect Dis, Lancet Infect Dis and N Engl J Med, with a total impact factor of 130. Now he is conducting research program sponsored by the National Natural Science Foundation of China and National Key Technology Support Program.

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

**Session IV: Middle East Respiratory Syndrome (MERS)  
Conundrum:**

*The etiology of Middle East Respiratory Syndrome, like that of the Ebola outbreak is a zoonotic virus. Emerging initially in Saudi Arabia, MERS, unlike Ebola has found a significant foothold geographically outside the region of emergence. This session will touch on issues associated with understanding the virus, its pathogenesis, and the implications for dealing with the outbreak, developing medical countermeasures, and preparation for the unknown future.*

**Dr. Ralph Baric**



Ralph Baric, Ph.D., is a Research Professor in Microbiology and Immunology at the University of North Carolina at Chapel Hill School of Public Health. The Baric Group uses genetic, immunologic and biochemical approaches to study the molecular mechanisms regulating viral replication, pathogenesis, evolution, virus-host interactions and cross species transmission using coronaviruses and noroviruses as model systems. In recent work, he has used a human antibody-phage library to identify seven human neutralizing antibodies specific for the receptor-binding domain of the MERS-CoV Spike protein. He is a fellow of the American Society for Microbiology and a member of the American Society for Virology and the American Association for the Advancement of Science. Dr. Baric received his Ph.D. in Microbiology from North Carolina State University and was a post-doctoral fellow at the University Of Southern California School Of Medicine in the Department of Microbiology and Neurology.

**Dr. Zhengli Shi**



Zhengli Shi, Ph.D., is the director of the Center for Emerging Infectious Diseases of the Wuhan Institute of Virology. Her research focuses on viral pathogen discovery through traditional and high-throughput sequencing techniques. She has been studying the wildlife-borne viral pathogens, particularly bat-borne viruses since 2004. Her group has discovered diverse novel viruses/virus antibodies in bats, including SARS-like coronaviruses, adenoviruses, adeno-associated viruses, circoviruses, paramyxoviruses and filoviruses in China. One of her great contributions is to uncover genetically diverse SARS-like coronaviruses in bats with her international collaborators and provide unequivocal evidence that bats are natural reservoir of SARS-CoV by isolation of one strain that is closely related to the SARS-CoV in 2002-3. She has coauthored >80 publications on viral pathogen identification, diagnosis and epidemiology.

Beijing, China September 29-30, 2015

**Dr. Wenjie Tan**



Wenjie Tan, M.D., Ph.D., is Chief of Biotech Center for Viral Disease Emergency and Professor of National Institute for Viral Disease Control and Prevention, China CDC. His recent study fields focus on diagnosis and surveillance of HCOVs (including MERS-CoV, SARS-CoV) and emerging respiratory viral diseases in China. He is also working on R&D of vaccine against viral diseases. Various elements of vaccine design and delivery, including optimization of viral vector and protein design, adjuvant, and routes of delivery, are studied. He was a recipient of the Second Prize for National Science and Technology Advancement in China from the State Science and Technology Commission in 1997. Dr. Tan earned a M.D. from Beijing Medical University and Ph.D. from Chinese Academy of Preventive Medicine (CAPM). He was a post-doctoral fellow at the University Of Southern California School Of Medicine and University of California in Los Angeles (UCLA).

**Dr. Deyin Guo**



Deyin Guo, Ph.D., is Professor of Virology at the School of Basic Medical Sciences (SBMS) and the College of Life Sciences, Wuhan University. He also serves as the Dean of SBMS and Deputy Director of the National Key Laboratory of Virology. Dr. Guo focuses his work on molecular mechanisms of the infection and pathogenesis of RNA viruses, in particular on the RNA genome replication and immune escape of coronaviruses. He has uncovered novel mechanisms of RNA modification and established high throughput platform for screening inhibitors targeting coronavirus methyltransferases. His group also adopts gene editing technologies to genetically modify or disrupt the HIV receptors and provirus of T cells and hematopoietic stem cells of the patients, aiming at functional cure of HIV/AIDS by genetic therapy. Guo obtained his Ph.D in Microbiology from the Faculty of Biosciences, Braunschweig University of Technology in Germany, and received his postdoctoral training at the Institute of Biotechnology, University of Helsinki, Finland. He has been professor in microbiology at Wuhan University since 2002.

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

**Session V: Gain of Function Research**

**Conundrum:**

*The new tools of molecular biology and genetics, now globally available, have made what only nature could do, typically slowly, attainable in the laboratory in days or weeks. While the tools will greatly enhance our ability to both understand disease and develop countermeasures, they could also be used for great harm, either accidentally or intentionally. This session will touch on issues associated with gain of function (Gof) research and policy in both our countries and give us an opportunity to share thoughts and ideas regarding the way ahead. Is there research that is too dangerous to undertake? Will we know it when we see it and how can we balance a sometimes only partially understood risk with the benefit that might come from such work?*

**Dr. David Franz (See his introduction on page 10)**

**Dr. Wenjun Liu**



Wenjun Liu, DVM/Ph.D., is the deputy director of CAS Key Laboratory of Pathogenic Microbiology of Immunology, Institute of Microbiology, Chinese Academy of Science. He received his DVM from Beijing Agricultural University in Beijing and Ph.D from the University of Florida in Gainesville, Florida. He had worked at China Agricultural University (1985-1989) and National Animal Disease Center of USDA (1988-1989), Howard Hughes Medical Institute/Oklahoma Medical Research Foundation (1998-2001), and Genzyme Corporation (2001-2004). Now he is a professor and deputy director in CAS Key Laboratory of Pathogenic Microbiology of Immunology, Institute of Microbiology, Chinese Academy of Science. He is also the director of Biosafety Level 3 Laboratory, Institute of Microbiology, Chinese Academy of Science. His lab focuses on the molecular biology of viruses, the interactions of viruses with host cells, the post-translational modification of viral proteins, and mechanisms of host defense. The research works are designed to increase fundamental knowledge as well as to facilitate the development of new approaches to control of viral infection. In his research area, Dr. Liu has published nearly 70 research articles and reviews.

**Dr. Zhongliang Ma**



Zhongliang Ma, Ph.D., Member of Shanghai Society of Microbiology, Associate Professor, Shanghai University. He received his Ph.D in Institute of Microbiology, Chinese Academy of Science (2003). He had worked at China Pharmaceutical University (1996-1999) and as postdoc in 2003-2006. Now he works at School of Life Sciences, Shanghai University. In 2013-2014, he worked in MD Anderson Cancer Center in USA as senior visiting scholar. He focuses on biology of noncoding RNA (microRNA, long noncoding RNA and tRNA derived fragments) in cancer. Dr. Ma has published nearly 30 research articles and reviews. He also does research on Bioethics, published a book called Bioethics in today.

Beijing, China September 29-30, 2015

**Dr. Li Ruan**



Li Ruan, M.D. & Ph.D., as a doctor and researcher, he once held the post of Director of Institute for Viral Disease Control and Prevention of Chinese Centre for Disease Control and Prevention and chief of Biotech Center for Virus Disease Emergency. Since 1980, he has focused on the study of heritable variation and immunization of viruses and engaged in the research and development of biological technology including genetically engineered vaccines. In recent years, he was responsible for the monitoring of SARS and prevention and control of poxvirus related diseases such as smallpox and monkeypox. He was also responsible for over 20 research projects sponsored by national science and technology projects, national hi-tech research and development plan, major sci-tech project, natural science fund, American NIH, EU and Ministry of Health, amongst others. He established two genetic expression systems using mammalian cells and recombinant vaccinia virus Tianjin strain and successfully researched Hepatitis B genetic engineering vaccine and Phase I clinic trials of five vaccinia recombinant vaccines. He was awarded a certificate of distinguished visiting scientist at Mount Sinai School of Medicine, New York in 1986, a certificate of excellent returned overseas researcher who made outstanding contributions to the state in 1991, a government special allowance in 1991, the National Science Fund for Distinguished Young Scholars (NSFDS) in 1995, the title of National Expert with Remarkable Contributions in 1996, the first prize of the National Science and Technology Progress in Recombinant Hepatitis B Vaccine Research in 1993 and the second prize of the National Science and Technology Progress in Research and Application of High-Efficiency Expression System Derived from Vaccinia Virus Tianjin Strain. He has also won other 4 provincial and ministry prizes, was involved in producing over 20 books, applied for 11 patents and published over 200 papers.

**Dr. Chengfeng Qin**



Chengfeng Qin, Ph.D., is the Director of Department of Virology, Institute of Microbiology and Epidemiology, AMMS. After graduated from Wuhan University, Dr. Qin obtained his Ph.D degree in Microbiology in Academy of Military Medical Sciences. Dr. Qin's combine reverse genetics and chemical modification to study flavivirus pathogenesis and improve vaccine stability. He has been awarded as the National Excellent Young Scientist Program of NSFC, the joint Award of Institute Merieux and Chinese Society of Microbiology, and the ADVAC fellowship from Foundation Merieux. He has authored more than 80 research papers and held a dozen of national and PCT patents on vaccine candidate and diagnosis kits. He serves as scientific editor or editorial board member of several international journals including Scientific Reports, BMC Infectious Diseases, Military Medicine Research, etc.

Beijing, China September 29-30, 2015

**Session VI:  
High-Containment Labs...Safe, Secure, Productive, and Sustainable  
Conundrum:**

*This session will discuss the need for high containment laboratories; construction and maintenance costs; laboratory safety and security issues; environmental risks; training; community relations; what to do in a crisis; and emerging technology in biology. The importance of laboratory leadership and a healthy social culture may also be addressed.*

**Dr. Thomas Ksiazek (See his introduction on page 7)**

**Dr. Zhiming Yuan**



Zhiming Yuan, Ph.D., got his PhD on microbiology and biotechnology at Sun Yat-sen University, and then trained and worked in France, Denmark, and United States for several years. He has been working as a Professor in Wuhan Institute of Virology, the President of Wuhan Branch, Chinese Academy of Sciences since year 2000. As a principal investigator, his research group works on the diagnosis and drug discovery of abortiviruses, genomics, insecticidal proteins and their mode of action, genetically modification of entomopathogenic bacteria (*Bacillus spp.*), as well as the production, standardization and application of bio-pesticide and other microbial agents. Since 2003, he was appointed the Chairman of Institutional Biosafety Committee, member of National Laboratory Biosafety Management Committee, advisor of different national technical committees on biosafety management, general manager of National High-Level Biosafety Laboratory in Wuhan. He also works as a group leader on Sino-French biosafety legislation cooperation. In addition, he was elected as President of Hubei Society for Microbiology in 2008. Along providing expertise and consultative services to both private companies and government institutions on matters of biotechnology and biosafety, he has given many lectures to national and international audiences. He published more than 150 scientific papers on *Bacillus spp.* and abortiviruses during his career.

**Dr. Mifang Liang**



Mifang Liang, Ph.D., Head of Laboratory of Viral Hemorrhagic Fever (VHF), National Institute for Viral Disease Control and Prevention, China CDC, is an active and highly respected virology professor in China, she was awarded as an expert to enjoy Special Government Allowance from the State Council. She received her medical doctor degree in Zhejiang University and Chinese Academy of Preventive Medicine in China in 1988, and post doctor training in USAMRIID, Fort Detrick, USA for VHF researches from 1992-1996. She was invited as a visiting professor in the University of Heidelberg, Germany from 1998-2000. She has been working on hemorrhagic fever (VHF) viruses for nearly 30 years, including hantavirus, Dengue virus, Chikungunya virus, CCHF virus, SFTS virus and the Ebola virus. As an national VHF expert, in the world responses to the outbreak of EVD, she played an active role in preparation of national documents related to Ebola virus laboratory diagnosis, biosafety assessment, laboratory training and biosafety so on. She also played key role in the development of EVD diagnosis kit, which was first issued by Chinese FDA, provided to China CDC lab team to be used for clinical diagnosis of EVD in Sierra Leone as well as the national and provincial laboratories for monitoring, contact tracing and clinical diagnosis of possible imported suspected EVD cases in China. She gained several national prizes in past years for her scientific contributions to medical science, and owned more than 20 patents and over 150 publications in VHF related research fields. Prof. Liang is also a national top biosafety expert involved in BSL-3 and BSL-4 facilities, resources, laboratory biosafety operations.

**Dr. Qiang Wei (See his introduction on page 7)**

Beijing, China September 29-30, 2015

**Session VII:  
Roundtable discussion and Areas for Enhanced Cooperation**

**Conundrum:**

*This session will focus on the goal of establishing collaborative partnerships. Discussion topics could include initiation/planning of additional academies-hosted workshops, bilateral or regional, addressing issues and policy challenges specific to containment laboratories and infectious disease research more broadly and improving the functionality and utility of biosafety associations. The session could also address joint training, student exchange or collaborative preparation for emerging disease outbreak response or public, government, industry and academia education about laboratory safety, security and responsible life-sciences research.*

**Dr. Diane Griffin (See her introduction on page 6)**

**Dr. George Fu Gao (See his introduction on page 6)**

**Dr. Benjamin Rusek**

Benjamin Rusek, senior program officer for in the Policy and Global Affairs Division of the National Academies of Sciences, Engineering, and Medicine. He has supported successful collaborative work with Chinese counterparts for more than ten years, serving as the study director for the project that produced the NAS report Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories (2012). He has organized workshops in India, Brazil, and other countries, often focused on the life sciences. He has been a member of the Executive Board of International Student/Young Pugwash since 2005 and Chair of ISYP from 2008-2013. He previously held various positions at the Henry L. Stimson Center, the Arms Control Association, and the U.S. National Air and Space Museum. Ben has a B.A. in political science from Ohio State University and an M.A. in political science from Purdue University.

**Dr. Zhengli Shi (See her introduction on page 12)**

**Dr. Deyin Guo (See his introduction on page 13)**

**NOTES:**

---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Wednesday, October 12, 2016 9:15 PM  
**To:** 'yzm@wh.iov.cn'  
**Cc:** LeDuc, James W.; Dave Franz (davidrf Franz@gmail.com)  
**Subject:** Meeting before the 7th International Symposium on Emerging Viral Diseases?  
**Attachments:** CAS NAS Bio Meeting Program and Slides Agenda Only.pdf

Greetings Dr. Zhiming Yuan,

As you know U.S. National Academy of Sciences colleagues Dr. David Franz, Dr. James LeDuc will visit Wuhan next week to attend the 7th International Symposium on Emerging Viral Diseases. We hope to speak to you during our visit about the possibility of holding a meeting between Chinese and U.S. experts sometime next year, possibly in Wuhan. You may recall the meeting we held in Beijing in late 2015 on the challenges of emerging infections, laboratory safety, and global health security (see the attached agenda). With your assistance we hope that a meeting in Wuhan in 2017 could continue the excellent engagement and discussion we began at the Beijing meeting. Thank you again for the invitation to attend the symposium and we look forward to speaking with you next week.

Kind regards,

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** Rusek, Benjamin  
**Sent:** Tuesday, October 11, 2016 8:00 PM  
**To:** 胡犇  
**Cc:** 'David Franz'  
**Subject:** RE: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Hi Ben,

The visa for Dr. Franz is in process and should be ready soon. I will happily pay for his registration and my registration if necessary (I will return to Beijing on the morning of Oct 20<sup>th</sup>). We are looking forward to meeting you and your colleagues as well as seeing your facilities and touring the BSL-4 laboratory next week.

Kind regards,

Benjamin J. Rusek  
Senior Program Officer  
Policy and Global Affairs Division  
The U.S. National Academy of Sciences, Engineering and Medicine  
Phone: 001-202-334-3975  
Cell: (b)(6)  
Fax: 001-202-334-1730  
Skype: (b)(6)

---

**From:** David Franz [mailto:davidrf Franz@gmail.com]  
**Sent:** Tuesday, October 11, 2016 9:46 AM

**To:** 胡犇

**Cc:** Rusek, Benjamin

**Subject:** Re: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Hi Ben,

Thanks for the followup. Ben can answer the question about the visa. He or his staff have submitted my passport this week because both Ben and I were using our passports elsewhere. Normally the turn-around time is very quick by China's visa service in Washington DC. Yes, I will accompany Ben and Jim for all activities. I will ask Ben how he wishes me to pay for the registration as well.

Thanks again for all of your help. We look forward to seeing you next week. dave

David R. Franz DVM, Ph.D



On Oct 11, 2016, at 9:37 AM, 胡犇 wrote:

Dear Dr. Franz:

May I know whether your visa is ready?

Will you travel to Wuhan together with Prof. Le Duc and Dr. Rusek? We will arrange pick-up service for you at Wuhan Airport.

Another issue is about the registration fee payment method. You can either pay on site on 19th or pay on-line in advance in our website (on-line payment is available now). Please note that we only accept cash for onsite payment, but for on-line payment, visa, master cards, etc are all acceptable.

On 19th we will organize a visit to our BSL-4 lab, I think you may join in the visiting group with Prof. Leduc and Dr. Rusek.

Looking forward to seeing you soon

Best regards

Ben

-----原始邮件-----

发件人: "David Franz" <davidrf Franz@gmail.com>

发送时间: 2016年8月14日 星期日

收件人: "胡犇" <huben@wh.iov.cn>

抄送:



主题: Re: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Thanks Ben! Will do. dave

David R. Franz DVM, Ph.D



On Aug 13, 2016, at 7:32 PM, 胡犇 wrote:

Hello Dr. Franz:

Yes the focus of the talks on the meeting will be laboratory work about the emerging viruses. However, we still appreciate if you can submit an abstract regarding your expertise (abstract only, no presentation), as policy and management are important as well in the field.

Thanks a lot!

Best regards

Ben

-----原始邮件-----

发件人: "David Franz" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>

发送时间: 2016年8月14日 星期日

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送:

主题: Re: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Hu,

Thank you for your good and welcome response. I would be happy to submit an abstract, but I'm not sure my current expertise and experience is what you are looking for at this important technical virology meeting. I am no longer in the laboratory. I am now primarily involved in science policy, laboratory leadership and balanced regulation domestically and encouraging infectious disease cooperation globally. So anything I would submit would not contain actual hard laboratory data, but be focused more on the human factors important to successful and productive research and development. Am I correct in believing that such a presentation would NOT be of interest to the program committee? I have attached a short bio to give you a sense of my background and experience.







Chinese Academy of Sciences

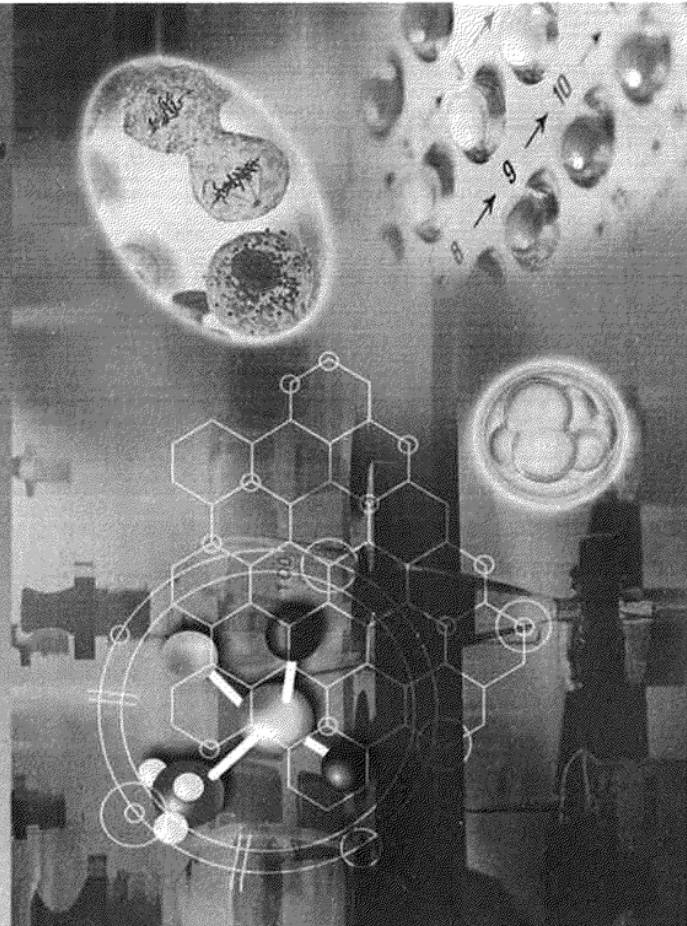
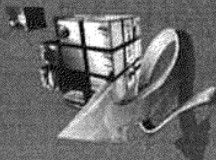
The National Academies of Sciences,  
Engineering, and Medicine  
SCIENCES-ENGINEERING-MEDICINE

**CAS-NAS Workshop on the Challenges of Emerging Infections,  
Laboratory Safety, and Global Health Security**

**29-30 September 2015**

**Beijing, China**

## Programme Handbook



**CAS-NAS Workshop on the Challenges of Emerging  
Infections, Laboratory Safety, and Global Health Security**

2

## Table of Contents

Scientific Programme	3
Brief Introduction of Sessions and Speakers	6
Notes	18
Contacts	22
Location Map	23

### Organized by:

Chinese Academy of Sciences

The National Academies of Sciences, Engineering, and Medicine

### Co-organized by:

Beijing Institutes of Life Science, CAS

The Institute of Microbiology, CAS

Beijing, China September 29-30, 2015

## Scientific Programme

E301, Institute of Microbiology, CAS  
NO.1 Beichen West Road, Chaoyang District, Beijing

Sep. 29, 2015 AM

08:30-09:00	Registration
09:00-09:15	Opening Remarks by Yaping Zhang & Diane Griffin Chair: George Fu Gao
09:15-10:30	Session I: The "Safety-Security-Regulation-Progress" Chair: George Fu Gao
1. American Speaker	David Franz Finding the Balance Among Safety, Security, Regulation, and Progress: The U.S. Experience
2. Chinese Speaker	Qiang Wei Progress of Laboratory Biosafety Management in China
Panelists	David Franz, Qiang Wei, Diane Griffin & George Fu Gao
10:30-11:00	Tea break, group photo
11:00-12:30	Session II: Influenza Chair: Peter Palese & Yuelong Shu
1. American Speaker	Peter Palese Influenza: Paths to a Better Vaccine?
2. Chinese Speaker	Yuelong Shu Genetic tuning of avian influenza A (H7N9) virus promotes viral fitness within different species
3. Chinese Speaker	Yi Shi "Host jump" of avian flu
4. Chinese Speaker	Juan Pu The continue evolution and threat of H5 and H9N2 avian influenza viruses in China
Panelists	Peter Palese, Yuelong Shu, Yi Shi & Juan Pu
12:30-14:00	Lunch

Beijing, China September 29-30, 2015

Sep. 29, 2015 PM

14:00-15:30	Session III: Ebola and beyond Chair: Thomas Ksiazek & Wuchun Cao
1. American Speaker	Thomas Ksiazek Ebola: Sustainable Austere Environment Laboratories
2. Chinese Speaker	Wuchun Cao Emerging Tick-borne Infections in China: An Increasing Public Health Threat
3. Chinese Speaker	Di Liu Intra-host dynamics of Ebola virus
4. Chinese Speaker	Yigang Tong Genetic diversity and evolutionary dynamics of Ebola virus in Sierra Leone
Panelists	Thomas Ksiazek, Wuchun Cao, Di Liu, Yigang Tong, Jiafu Jiang & George Fu Gao
15:30-16:00	Tea break
16:00-17:30	Session IV: Middle East Respiratory Syndrome Chair: Ralph Baric & Wenjie Tan
1. American Speaker	Ralph Baric MERS: Genetic Systems and Models
2. Chinese Speaker	Zhengli Shi Bat coronaviruses associated with human diseases
3. Chinese Speaker	Wenjie Tan MERS-CoV vaccine development: Test in China CDC
4. Chinese Speaker	Deyin Guo Development of broad-spectrum inhibitors by targeting coronavirus methyltransferases
Panelists	Ralph Baric, Zhengli Shi, Wenjie Tan, Deyin Guo & George Fu Gao
17:30-18:00	Review of Day 1 and plan for Day 2 Chair: George Fu Gao
18:00-20:00	Dinner

Beijing, China September 29-30, 2015

Sep. 30, 2015 AM

09:00-10:00		Session V: Gain of Function Research Chair: David Franz & Wenjun Liu	
1. American Speaker	David Franz	NAS Gain-of-Function Meeting Report (The scientists' view)	
2. Chinese Speaker	Wenjun Liu	Phosphorylation regulates the replication of influenza A virus	
Panelists	David Franz, Wenjun Liu, Zhongliang Ma, Li Ruan & Chengfeng Qin		
10:00-10:30		Tea break	
10:30-12:00		Session VI: High-Containment Labs...Safe, Secure, Productive, and Sustainable Chair: Thomas Ksiazek & Zhiming Yuan	
1. American Speaker	Thomas Ksiazek	High Containment Laboratories: Putting the pieces of laboratory safety and global health security together	
2. Chinese Speaker	Zhiming Yuan	Biosafety management of high-level biosafety laboratory for emerging disease control	
3. Chinese Speaker	Mifang Liang	laboratory risk assessment for responding to emerging infectious disease	
Panelists	Thomas Ksiazek, Zhiming Yuan, Mifang Liang & Qiang Wei		
12:00-13:30		Lunch	

Sep. 30, 2015 PM

13:30-15:00		Session VII: Areas for Enhanced Cooperation Chair: Diane Griffin & George Fu Gao	
1. American Speaker	Diane Griffin	Possible roles for CAS and NAS in Enhancing Cooperation on these topics	
2. Chinese Speaker	George F. Gao	Global health & China's role	
Panel Lists	Diane Griffin, George Fu Gao, Benjamin Rusek, Zhengli Shi & Deyin Guo		
15:00-15:30		Closing Remarks	Chair : George Fu Gao

Beijing, China September 29-30, 2015

## Brief Introduction of Sessions and Speakers

### Vice Presidents:



Dr.

Yaping Zhang, Ph.D., is the Vice President of the Chinese Academy of Sciences (CAS). As a research professor of Kunming Institute of Zoology, he has been focusing his research on molecular evolution and genome biodiversity. His investigations involve the correlated areas: molecular phylogenetics; molecular ecology and conservation genetics; human genetics and evolution; origin of domestic animals and artificial selection; genome diversity and evolution. Dr. Zhang has published more than 300 publications in SCI journals and is the author and co-author of five books. He was elected member of American Society of Human Genetics in 1996, the Society for Molecular Biology and Evolution in 1997 and then American Genetic Association in 1998. He is also elected Vice President of Chinese Society of Genetics in 2004, Vice President of Chinese Society of Zoology in 2005, and President of Yunnan Association for Science and Technology in 2008. Dr. Zhang has won dozens of national science prizes in China, including Ho Leung Ho Lee Prize for Science and Technology by Ho Leung Ho Lee Foundation in 2004. Dr. Zhang received his Ph.D. degree from Kunming Zoology Institute of CAS and was a post-doctoral fellow at Zoological Society of San Diego, Center for Reproduction of Endangered Species, USA. He was elected CAS member in 2003 and fellow of Third World Academy of Sciences (TWAS) in 2007.

### Dr. Diane Griffin



Diane E. Griffin, M.D., Ph.D., is the Vice President of the National Academy of Sciences and Professor and Alfred and Jill Sommer Chair of the W. Harry Haston Department of Molecular Microbiology and Immunology at the Johns Hopkins University. Dr. Griffin focuses her work on alphaviruses, acute encephalitis, measles, and malaria. She has identified determinants of virus virulence and mechanisms of noncytolytic clearance of virus from infected neurons. She is also working on the effect of measles virus infection and immune activation in response to infection on the immune system. In Zambia, she and her colleagues are examining the effect of HIV infection on measles and measles virus vaccination. She is a past president of the American Society for Virology, Association of Medical School Microbiology Chairs, and American Society for Microbiology, and a member of the American Academy of Microbiology. She was elected to the National Academy of Sciences and the Institute of Medicine and serves on the councils for both. Dr. Griffin earned a biology degree from Augustana College, followed by an M.D. and a Ph.D. from Stanford University. She completed her residency in Internal Medicine at Stanford University Hospital.

### Executive Chair:



### Dr. George Fu Gao

George Fu Gao, DPhil (Oxon), is the Director and Professor in CAS Key Laboratory of Pathogenic Microbiology and Immunology, Institute of Microbiology, Chinese Academy of Sciences. He is also the Vice President of Beijing Institutes of Life Science, Chinese Academy of Sciences, and Deputy Director-General of Chinese Center for Disease Control and Prevention (China CDC). His research is focusing on mechanisms of interspecies transmission ("host jump") of pathogens, especially interaction between the enveloped viruses and host, and molecular immune recognition. He has published more than 330 refereed papers. He was selected in the Chinese Academy of Sciences "Hundred Talents" program in 2004, and got National Natural Science Foundation of China (NSFC) Distinguished Young Scholar title in 2005. He is the chief scientist of two consecutive 973 project "mechanism of interspecies transmission of viral pathogens" (2005, 2011), and a leading principal investigator of the NSFC Innovative Research Group. He is also a steering committee member of International Consortium of Anti-Virals (ICAV), and visiting professor in Oxford University, UK. He has been awarded TWAS prizes in Medical Sciences in 2012, and been awarded Nikkei Asia Prize in 2014. He obtained his Ph.D (DPhil) degree in 1995 from Oxford University, UK. He was elected CAS member in 2013, fellow of The World Academy of Sciences (TWAS) in 2014 and fellow of American Academy of Microbiology (AAM) in 2015.

Beijing, China September 29-30, 2015



## Session I: The "Safety-Security-Regulation-Progress"

### Conundrum:

*This session will touch on issues associated with high-containment labs globally, but focus on policy issues that are pertinent to labs in the United States and China. High containment laboratories are being created for a variety of purposes including: human health/public health, animal health, agriculture, basic research, including synthetic biology, product development, test and evaluation, and security/forensics. High containment laboratories are managed primarily by governments, including health, agriculture, defense, and other ministries, but also in some cases by academia and commercial industry. The proliferation of high containment laboratories underscores the importance of developing a biological risk management approach that facilitates research and public health in enhancing biological safety and laboratory biological security in both new and existing facilities. The speakers will outline Chinese and U.S. issues related to the balance between safety, security, and progress. Speakers will introduce the concept of achieving a balance between safety, regulation, and advancing life science research on dangerous pathogens.*



**Dr. David Franz**

David R. Franz, DVM, Ph.D., holds an adjunct appointment as Professor for the Department of Diagnostic Medicine and Pathobiology at the College of Veterinary Medicine, Kansas State University. His current focus and research relates to the role of international engagement in the life sciences as a component of national security policy. Dr. Franz holds a DVM from Kansas State University and a Ph.D. in Physiology from Baylor College of Medicine. Dr. Franz served in the U.S. Army Medical Research and Materiel Command for 23 of 27 years on active duty and retired as Colonel. He served as Commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) and as Deputy Commander of the Medical Research and Materiel Command. Dr. Franz was the Chief Inspector on three United Nations Special Commission biological warfare inspection missions to Iraq. He also served as a member of the first two U.S.-U.K. teams that visited Russia in support of the Trilateral Joint Statement on Biological Weapons and as a member of the Trilateral Experts' Committee for biological weapons negotiations. Dr. Franz was Technical Editor for the Textbook of Military Medicine on Medical Aspects of Chemical and Biological Warfare released in 1997. Dr. Franz has co-chaired, chaired or served as a member on over twenty NAS committees.



**Dr. Qiang Wei**

Qiang Wei, Ph.D., Professor, is the deputy director of Office for Laboratory Management, Chinese Center for Disease Control and Prevention (China CDC). In Nov 2004 with the enacting of the Regulation on Biosafety Management of Pathogenic Microbe Labs by the State Council, Dr. Wei has been engaging in the laboratory biosafety management and related research working field since that time. Dr. Wei participates in several drafting working of regulations and standards regarding biosafety management issued by National Health and Family Planning Commission, PRC, and China National Accreditation Service for Conformity Assessment.

**Dr. Diane Griffin (See her introduction on page 6)**

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

## Session II: Influenza

### Conundrum:

*Seasonal influenza remains a major cause of morbidity and mortality worldwide annually and the specter of pandemic flu remains with us. There has been a great deal of excellent basic and applied research conducted both in China and the United States in recent years. This session will touch on issues associated with the virus, the disease load in both our countries and the enormous strides being made to both understand viral pathogenesis and develop medical countermeasures.*



**Dr. Peter Palese**

Peter Palese, Ph.D. (NAS, IOM), is Professor of Microbiology and Chair of the Department of Microbiology at the Mount Sinai School of Medicine in New York. He has over 270 scientific publications that include research on the replication of RNA-containing viruses with a special emphasis on influenza viruses, which are negative-strand RNA viruses. Specifically, he established the first genetic maps for influenza A, B and C viruses, identified the function of several viral genes, and defined the mechanism of neuraminidase inhibitors (which are now FDA-approved antivirals). Dr. Palese also pioneered the field of reverse genetics for negative strand RNA viruses, which allows the introduction of site-specific mutations into the genomes of these viruses. This technique is crucial for the study of the structure/function relationships of viral genes, for investigation of viral pathogenicity and for development and manufacture of novel vaccines. In addition, an improvement of the technique has been effectively used by him and his colleagues to reconstruct and study the pathogenicity of the highly virulent but extinct 1918 pandemic influenza virus. His recent work in collaboration with Garcia-Sastre has revealed that most negative-strand RNA viruses possess proteins with interferon antagonist activity, enabling them to counteract the antiviral response of the infected host. Dr. Palese was elected to the National Academy of Sciences in 2000 for his seminal studies on influenza viruses. At present he serves on the editorial board for the Proceedings of the National Academy of Sciences and as an editor for the Journal of Virology. Dr. Palese was president of the Harvey Society in 2004, president of the American Society for Virology in 2005 and he was a recipient of the Robert Koch Prize in 2006 and of the Charles C. Shepard Science Award in 2008.



**Dr. Yuelong Shu**

Yuelong Shu, Ph.D., is the director of WHO Collaborating Center for Reference and Research on Influenza (WHO CC), director of Chinese National Influenza Centre (CNIC) and deputy director of National Institute for Viral Disease Control and Prevention (NIVDC) at Chinese Center for Disease Control and Prevention (China CDC). His research area is mainly on molecular evolution, the mechanisms of interspecies transmission, infectivity, and pathogenicity of influenza viruses, and the new detection techniques development and vaccine and drug-related research. In 2013, he firstly discovered a novel H7N9 avian influenza virus caused severe human infection in China. He leads the studies on the biological features of the H7N9 avian influenza virus; the findings provided scientific insights for the infectivity, transmissibility and pathogenesis of the novel virus. He successfully developed diagnosis kits for H7N9 virus to improve the clinical treatment. He also firstly identified the avian influenza H10N8 and H5N6 viruses caused human infection. He made great contributions to the prevention and control of H5N1 and pandemic H1N1 2009 such as diagnosis kits development.

Beijing, China September 29-30, 2015

**Dr. Yi Shi**



Yi Shi, Ph.D., is an associate professor of structural biology at Beijing Institutes of Life Science, Chinese Academy of Sciences(CAS), Beijing, China. He focuses on the molecular interaction between pathogen and host, especially molecular mechanism of interspecies transmission of influenza viruses, and also molecular recognition by immune molecules.

**Dr. Juan Pu (On behalf of Dr. Jinhua Liu)**



Juan Pu, Ph.D., is an associate Professor of Key Laboratory of Animal Epidemiology and Zoonosis, College of Veterinary Medicine, China Agricultural University. Dr. Pu's interests include the phylogeny, antigenicity, infectivity and interspecies transmission of avian influenza virus. Dr. Pu received her Ph.D in Preventive Veterinary Medicine, China Agricultural University in 2008 and worked as a visiting scientist at St. Jude Children's Research Hospital during 2013-2014.

**Dr. Jinhua Liu**



Jinhua Liu, Ph.D., is a Professor of Key Laboratory of Animal Epidemiology and Zoonosis, College of Veterinary Medicine, China Agricultural University. He is Chair of Preventive Veterinary Medicine, College of Veterinary Medicine. Dr. Liu focuses his work on avian influenza, in particular the epidemiology and molecular epidemiology, and pathogenicity mechanism of avian influenza virus. He is the first in identifying H5N1 viruses in migratory birds in Qinghai Lake in 2005. He also showed the epidemic trends of H9N2 and H5N1 viruses in China and found that evolution of the single H9N2 influenza genotype that facilitated the genesis of the novel H7N9 virus. His group also evaluated the risk of the novel clade 2.3.4.4 H5 virus emerged in worldwide. Dr. Liu received his Ph.D in Preventive Veterinary Medicine, China Agricultural University in 1997 and had the post-doctoral training at Hokkaido University in Japan during 2000-2002.

Beijing, China September 29-30, 2015

**Session III: Ebola and beyond**

**Conundrum:**

*Ebola, once a disease of the African bush, occasionally jumping from animals to a few humans, demonstrated itself as a powerful and devastating force in urban West Africa in the last year. Both China and the United States—while little impacted directly—provided support to the region and continue to assist even after the outbreak is mostly contained. This session will touch on issues associated with the virus, the outbreak, and the way ahead as we work to prepare for this virus and others globally.*

**Dr. Thomas Ksiazek**



Thomas Ksiazek, Ph.D., is the director of high containment laboratory operations for the Galveston National Laboratory at the University of Texas Medical Branch. In addition to his work for the Galveston National Laboratory, he is a professor in the departments of pathology and microbiology and immunology at the University of Texas Medical Branch. Dr. Ksiazek is also director of the National Biodefense Training Center and a world-renowned virus expert with 40 years of experience on the front lines of some of the worst outbreaks the world has ever seen. Before coming to the medical branch, he was chief of the Special Pathogens Branch at the CDC in Atlanta where he coordinated outbreak and control responses to especially dangerous pathogens such as Ebola, Marburg and SARS. He was one of the discoverers of the SARS virus. Through the years, he has played a significant role in disease discovery and outbreak response efforts in Asia, Africa, South America and the Middle East. He has a bachelor's degree in biological sciences and a DVM from Kansas State University, a master's degree in virology from the University of Wisconsin, Madison, and a Ph.D. in epidemiology/virology from the University of California, Berkeley. He is the author of more than 350 research papers.

**Dr. Wuchun Cao**



Wuchun Cao, Ph.D., received a medical degree from Shandong Medical University in 1985. After getting a WHO fellowship in 1990, he was trained in Epidemiology of Infectious Diseases at the Faculty of Tropical Medicine, Mahidol University, and enrolled the Master program in Health Economics at Chulalongkorn University, Bangkok, Thailand. Then he transferred to Erasmus University, Rotterdam, the Netherlands, where he received his M.Sc and Ph.D degrees. Since returning to China, he has been working at Institute of Microbiology and Epidemiology (IME), Academy of Military Medical Sciences (AMMS), first as a postdoctoral fellow and subsequently as an associate professor and a professor. He worked as a visiting scholar in Institute of Public Health, Cambridge University, UK and Karolinska Institute, Stockholm, Sweden. He is currently a professor of Microbiology and Epidemiology, and appointed as the general director of IME, AMMS and the director of the State Key Laboratory of Pathogen and Biosecurity. His research interests are epidemiology and control of infectious diseases, especially emerging infectious diseases, molecular spatial epidemiology and bio-defense. He has published over 300 papers among which 176 were published in SCI journals with a total Impact Factor of 1002. He was awarded the First Class National Prize for Progress in Science and Technology, China in 2011. He is the members or standing members of 25 scientific associations or consulting committees, and editing members of 15 national scientific journals.

Beijing, China September 29-30, 2015

**Dr. Di Liu**



Di Liu, Ph.D., is a Professor of the Institute of Microbiology, Chinese Academy of Sciences. His research focuses on applying bioinformatics approaches and evolution models to study transmission and evolutionary dynamics of pathogens of emerging infectious diseases. In recent studies, he has clarified the origin and transmission dynamics of the novel H7N9 avian influenza virus and unraveled the diversity and dynamics of the Ebola virus in Sierra Leone, 2014. Dr. Liu received his bachelor's degree in biophysics and Ph.D. in bioinformatics from Peking University and was a post-doctoral fellow at the Institute of Microbiology, Chinese Academy of Sciences.

**Dr. Yigang Tong**



Yigang Tong, Ph.D., graduated from Fudan University and got his Ph.D. degree in the Academy of Military Medical Sciences. He received postdoctoral training in the University of British Columbia (UBC), where he received Michael Smith Award. He is currently a professor in State Key Laboratory of Pathogen and Biosecurity. He has published more than 70 papers in international journals such as Nature, Journal of Virology, Journal of General Virology, Emerging Infectious Diseases, Journal of Biological Chemistry, etc. His major research interests are etiologic agents of emerging infectious diseases, high throughput sequencing techniques and bioinformatics approaches for novel pathogen identification and characterization, and bacteriophage based prevention and treatment of multi-drug resistance bacterial infections. He has invented a PCR-based technique to clone full-length cDNA of multiple exons blood cells without mRNA preparation and reverse transcription. He discovered that the high frequency reads in deep sequencing data represents the terminal sequences of the sequenced linear genome, which provide a cheap and convenient method for identification of bacteriophage genome termini. After the outbreak of Ebola epidemic in West Africa, he went to Sierra Leone as the Chief Scientist with the third batch of Chinese Medical and Testing team. Besides the Ebola testing work, he and his team sequenced hundreds of Ebola samples and got 175 full length genome sequences of the ebola viruses. The results were published online on Nature magazine in May 2015.

**Dr. Jiafu Jiang**



Jiafu Jiang, Ph.D., is an associate professor of Beijing Institute of Microbiology and Epidemiology. His current research has focused on the epidemiology study of rodent and tick borne emerging infectious disease that have important public health implications, including hemorrhagic fever with renal syndrome, anaplasmosis, babesiosis infection, rickettsiosis etc. In recent studies, he provided evidence of epidemiological and clinical feature of confirmed and non-confirmed Ebola virus disease (EVD) patients, as well as aspects combining laboratory and the clinical data in 2014 EVD outbreak in western Africa based on his work experience in Sierra Leone. At recently years, as first author or corresponding author, he has published 12 papers in the international peer-reviewed medical journals such as Virus Res, Clin Microbiol Infect, Emerg Infect Dis, Lancet Infect Dis and N Engl J Med, with a total impact factor of 130. Now He is conducting research program sponsored by the National Natural Science Foundation of China and National Key Technology Support Program.

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

**Session IV: Middle East Respiratory Syndrome (MERS)  
Conundrum:**

*The etiology of Middle East Respiratory Syndrome, like that of the Ebola outbreak is a zoonotic virus. Emerging initially in Saudi Arabia, MERS, unlike Ebola has found a significant foothold geographically outside the region of emergence. This session will touch on issues associated with understanding the virus, its pathogenesis, and the implications for dealing with the outbreak, developing medical countermeasures, and preparation for the unknown future.*

**Dr. Ralph Baric**



Ralph Baric, Ph.D., is a Research Professor in Microbiology and Immunology at the University of North Carolina at Chapel Hill School of Public Health. The Baric Group uses genetic, immunologic and biochemical approaches to study the molecular mechanisms regulating viral replication, pathogenesis, evolution, virus-host interactions and cross species transmission using coronaviruses and noroviruses as model systems. In recent work, he has used a human antibody-phage library to identify seven human neutralizing antibodies specific for the receptor-binding domain of the MERS-CoV Spike protein. He is a fellow of the American Society for Microbiology and a member of the American Society for Virology and the American Association for the Advancement of Science. Dr. Baric received his Ph.D. in Microbiology from North Carolina State University and was a post-doctoral fellow at the University Of Southern California School Of Medicine in the Department of Microbiology and Neurology.

**Dr. Zhengli Shi**



Zhengli Shi, Ph.D., is the director of the Center for Emerging Infectious Diseases of the Wuhan Institute of Virology. Her research focuses on viral pathogen discovery through traditional and high-throughput sequencing techniques. She has been studying the wildlife-borne viral pathogens, particularly bat-borne viruses since 2004. Her group has discovered diverse novel viruses/virus antibodies in bats, including SARS-like coronaviruses, adenoviruses, adeno-associated viruses, circoviruses, paramyxoviruses and filoviruses in China. One of her great contributions is to uncover genetically diverse SARS-like coronaviruses in bats with her international collaborators and provide unequivocal evidence that bats are natural reservoir of SARS-CoV by isolation of one strain that is closely related to the SARS-CoV in 2002-3. She has coauthored >80 publications on viral pathogen identification, diagnosis and epidemiology.

Beijing, China September 29-30, 2015

**Dr. Wenjie Tan**



Wenjie Tan, M.D., Ph.D., is Chief of Biotech Center for Viral Disease Emergency and Professor of National Institute for Viral Disease Control and Prevention, China CDC. His recent study fields focus on diagnosis and surveillance of HCOVs (including MERS-CoV, SARS-CoV) and emerging respiratory viral diseases in China. He is also working on R&D of vaccine against viral diseases. Various elements of vaccine design and delivery, including optimization of viral vector and protein design, adjuvant, and routes of delivery, are studied. He was a recipient of the Second Prize for National Science and Technology Advancement in China from the State Science and Technology Commission in 1997. Dr. Tan earned a M.D. from Beijing Medical University and Ph.D. from Chinese Academy of Preventive Medicine (CAPM). He was a post-doctoral fellow at the University Of Southern California School Of Medicine and University of California in Los Angeles (UCLA).

**Dr. Deyin Guo**



Deyin Guo, Ph.D., is Professor of Virology at the School of Basic Medical Sciences (SBMS) and the College of Life Sciences, Wuhan University. He also serves as the Dean of SBMS and Deputy Director of the National Key Laboratory of Virology. Dr. Guo focuses his work on molecular mechanisms of the infection and pathogenesis of RNA viruses, in particular on the RNA genome replication and immune escape of coronaviruses. He has uncovered novel mechanisms of RNA modification and established high throughput platform for screening inhibitors targeting coronavirus methyltransferases. His group also adopts gene editing technologies to genetically modify or disrupt the HIV receptors and provirus of T cells and hematopoietic stem cells of the patients, aiming at functional cure of HIV/AIDS by genetic therapy. Guo obtained his Ph.D in Microbiology from the Faculty of Biosciences, Braunschweig University of Technology in Germany, and received his postdoctoral training at the Institute of Biotechnology, University of Helsinki, Finland. He has been professor in microbiology at Wuhan University since 2002.

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

**Session V: Gain of Function Research**

**Conundrum:**

*The new tools of molecular biology and genetics, now globally available, have made what only nature could do, typically slowly, attainable in the laboratory in days or weeks. While the tools will greatly enhance our ability to both understand disease and develop countermeasures, they could also be used for great harm, either accidentally or intentionally. This session will touch on issues associated with gain of function (Gof) research and policy in both our countries and give us an opportunity to share thoughts and ideas regarding the way ahead. Is there research that is too dangerous to undertake? Will we know it when we see it and how can we balance a sometimes only partially understood risk with the benefit that might come from such work?*

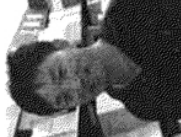
**Dr. David Franz (See his introduction on page 10)**

**Dr. Wenjun Liu**



Wenjun Liu, DVM/Ph.D., is the deputy director of CAS Key Laboratory of Pathogenic Microbiology of Immunology, Institute of Microbiology, Chinese Academy of Science. He received his DVM from Beijing Agricultural University in Beijing and Ph.D from the University of Florida in Gainesville, Florida. He had worked at China Agricultural University (1985-1989) and National Animal Disease Center of USDA (1988-1989), Howard Hughes Medical Institute/Oklahoma Medical Research Foundation (1998-2001), and Genzyme Corporation (2001-2004). Now he is a professor and deputy director in CAS Key Laboratory of Pathogenic Microbiology of Immunology, Institute of Microbiology, Chinese Academy of Science. He is also the director of Biosafety Level 3 Laboratory, Institute of Microbiology, Chinese Academy of Science. His lab focuses on the molecular biology of viruses, the interactions of viruses with host cells, the post-translational modification of viral proteins, and mechanisms of host defense. The research works are designed to increase fundamental knowledge as well as to facilitate the development of new approaches to control of viral infection. In his research area, Dr. Liu has published nearly 70 research articles and reviews.

**Dr. Zhongliang Ma**



Zhongliang Ma, Ph.D., Member of Shanghai Society of Microbiology, Associate Professor, Shanghai University. He received his Ph.D in Institute of Microbiology, Chinese Academy of Science (2003). He had worked at China Pharmaceutical University (1996-1999) and as postdoc in 2003-2006. Now he works at School of Life Sciences, Shanghai University. In 2013-2014, he worked in MD Anderson Cancer Center in USA as senior visiting scholar. He focuses on biology of noncoding RNA (microRNA, long noncoding RNA and tRNA derived fragments) in cancer. Dr. Ma has published nearly 30 research articles and reviews. He also does research on Bioethics, published a book called Bioethics in today.

Beijing, China September 29-30, 2015



**Dr. Li Ruan**



Li Ruan, M.D. & Ph.D., as a doctor and researcher, he once held the post of Director of Institute for Viral Disease Control and Prevention of Chinese Centre for Disease Control and Prevention and chief of Biotech Center for Virus Disease Emergency. Since 1980, he has focused on the study of heritable variation and immunization of viruses and engaged in the research and development of biological technology including genetically engineered vaccines. In recent years, he was responsible for the monitoring of SARS and prevention and control of poxvirus related diseases such as smallpox and monkeypox. He was also responsible for over 20 research projects sponsored by national science and technology projects, national hi-tech research and development plan, major sci-tech project, natural science fund, American NIH, EU and Ministry of Health, amongst others. He established two genetic expression systems using mammalian cells and recombinant vaccinia virus Tianjin strain and successfully researched Hepatitis B genetic engineering vaccine and Phase I clinic trials of five vaccinia recombinant vaccines. He was awarded a certificate of distinguished visiting scientist at Mount Sinai School of Medicine, New York in 1986, a certificate of excellent returned overseas researcher who made outstanding contributions to the state in 1991, a government special allowance in 1991, the National Science Fund for Distinguished Young Scholars (NSFDS) in 1995, the title of National Expert with Remarkable Contributions in 1996, the first prize of the National Science and Technology Progress in Recombinant Hepatitis B Vaccine Research in 1993 and the second prize of the National Science and Technology Progress in Research and Application of High-Efficiency Expression System Derived from Vaccinia Virus Tianjin Strain. He has also won other 4 provincial and ministry prizes, was involved in producing over 20 books, applied for 11 patents and published over 200 papers.

**Dr. Chengfeng Qin**



Chengfeng Qin, Ph.D., is the Director of Department of Virology, Institute of Microbiology and Epidemiology, AMMS. After graduated from Wuhan University, Dr. Qin obtained his Ph.D degree in Microbiology in Academy of Military Medical Sciences. Dr. Qin's combine reverse genetics and chemical modification to study flavivirus pathogenesis and improve vaccine stability. He has been awarded as the National Excellent Young Scientist Program of NSFC, the joint Award of Institute Merieux and Chinese Society of Microbiology, and the ADVAC fellowship from Foundation Merieux. He has authored more than 80 research papers and held a dozen of national and PCT patents on vaccine candidate and diagnosis kits. He serves as scientific editor or editorial board member of several international journals including Scientific Reports, BMC Infectious Diseases, Military Medicine Research, etc.

Beijing, China September 29-30, 2015

**Session VI:  
High-Containment Labs...Safe, Secure, Productive, and Sustainable  
Conundrum:**

*This session will discuss the need for high containment laboratories; construction and maintenance costs; laboratory safety and security issues; environmental risks; training; community relations; what to do in a crisis; and emerging technology in biology. The importance of laboratory leadership and a healthy social culture may also be addressed.*

**Dr. Thomas Ksiazek (See his introduction on page 7)**

**Dr. Zhiming Yuan**



Zhiming Yuan, Ph.D., got his PhD on microbiology and biotechnology at Sun Yat-sen University, and then trained and worked in France, Denmark, and United States for several years. He has been working as a Professor in Wuhan Institute of Virology, the President of Wuhan Branch, Chinese Academy of Sciences since year 2000. As a principal investigator, his research group works on the diagnosis and drug discovery of abortiviruses, genomics, insecticidal proteins and their mode of action, genetically modification of entomopathogenic bacteria (*Bacillus spp.*), as well as the production, standardization and application of bio-pesticide and other microbial agents. Since 2003, he was appointed the Chairman of Institutional Biosafety Committee, member of National Laboratory Biosafety Committee, advisor of different national technical committees on biosafety management, general manager of National High-Level Biosafety Laboratory in Wuhan. He also works as a group leader on Sino-French biosafety legislation cooperation. In addition, he was elected as President of Hubei Society for Microbiology in 2008. Along providing expertise and consultative services to both private companies and government institutions on matters of biotechnology and biosafety, he has given many lectures to national and international audiences. He published more than 150 scientific papers on *Bacillus spp.* and abortiviruses during his career.

**Dr. Mifang Liang**



Mifang Liang, Ph.D., Head of Laboratory of Viral Hemorrhagic Fever (VHF), National Institute for Viral Disease Control and Prevention, China CDC, is an active and highly respected virology professor in China, she was awarded as an expert to enjoy Special Government Allowance from the State Council. She received her medical doctor degree in Zhejiang University and Chinese Academy of Preventive Medicine in China in 1988, and post doctor training in USAMRIID, Fort Detrick, USA for VHF researches from 1992-1996. She was invited as a visiting professor in the University of Heidelberg, Germany from 1998-2000. She has been working on hemorrhagic fever (VHF) viruses for nearly 30 years, including hantavirus, Dengue virus, Chikungunya virus, CCHF virus, SFTS virus and the Ebola virus. As an national VHF expert, in the world responses to the outbreak of EVD, she played an active role in preparation of national documents related to Ebola virus laboratory diagnosis, biosafety assessment, laboratory training and biosafety so on. She also played key role in the development of EVD diagnosis kit, which was first issued by Chinese FDA, provided to China CDC lab team to be used for clinical diagnosis of EVD in Sierra Leone as well as the national and provincial laboratories for monitoring, contact tracing and clinical diagnosis of possible imported suspected EVD cases in China. She gained several national prizes in past years for her scientific contributions to medical science, and owned more than 20 patents and over 150 publications in VHF related research fields. Prof. Liang is also a national top biosafety expert involved in BSL-3 and BSL-4 facilities, resources, laboratory biosafety operations.

**Dr. Qiang Wei (See his introduction on page 7)**

Beijing, China September 29-30, 2015



**Session VII:  
Roundtable discussion and Areas for Enhanced Cooperation**

**Conundrum:**

*This session will focus on the goal of establishing collaborative partnerships. Discussion topics could include initiation/planning of additional academies-hosted workshops, bilateral or regional, addressing issues and policy challenges specific to containment laboratories and infectious disease research more broadly and improving the functionality and utility of biosafety associations. The session could also address joint training, student exchange or collaborative preparation for emerging disease outbreak response or public, government, industry and academia education about laboratory safety, security and responsible life-sciences research.*

**Dr. Diane Griffin (See her introduction on page 6)**

**Dr. George Fu Gao (See his introduction on page 6)**

**Dr. Benjamin Rusek**

Benjamin Rusek, senior program officer for in the Policy and Global Affairs Division of the National Academies of Sciences, Engineering, and Medicine. He has supported successful collaborative work with Chinese counterparts for more than ten years, serving as the study director for the project that produced the NAS report Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories (2012). He has organized workshops in India, Brazil, and other countries, often focused on the life sciences. He has been a member of the Executive Board of International Student/Young Pugwash since 2005 and Chair of ISYP from 2008-2013. He previously held various positions at the Henry L. Stimson Center, the Arms Control Association, and the U.S. National Air and Space Museum. Ben has a B.A. in political science from Ohio State University and an M.A. in political science from Purdue University.

**Dr. Zhengli Shi (See her introduction on page 12)**

**Dr. Deyin Guo (See his introduction on page 13)**

**NOTES:**

---

**From:** LeDuc, James W.  
**Sent:** Thursday, October 13, 2016 8:38 AM  
**To:** Shi, Pei yong  
**Subject:** FW: Meeting before the 7th International Symposium on Emerging Viral Diseases?  
**Attachments:** CAS NAS Bio Meeting Program and Slides Agenda Only.pdf

Hi Pei-Yong,

I hope the meeting in Berlin is going well. As you know, I will be in Wuhan next week and will meet with Zhiming about a follow-up meeting to the NAS-CAS meeting held in Beijing last September. Our goal is to co-host another meeting in Wuhan, probably in the spring of 2017 in Wuhan and hopefully Zhiming will be supportive of the idea. This was discussed and tentatively agreed to following the last meeting. See the attached agenda from our last meeting, which unfortunately I was unable to attend. Importantly, I learned yesterday that we (NAS) have funding to support a third meeting and one consideration is to host in here in Galveston with the GNL playing a significant role. **I'm wondering if you might be willing to help me as co-organizer of the meeting here, probably in Fall, 2017.** At this time we are still in the early discussion phase, but I wanted to surface the idea during our talks with Zhiming next week, and having your involvement will certainly add credibility to the event. I don't want to mention your involvement without your prior approval, so let me know what you think asap please.

Thanks, Jim

**From:** Rusek, Benjamin [mailto:BRusek@nas.edu]  
**Sent:** Wednesday, October 12, 2016 9:15 PM  
**To:** 'yzm@wh.iov.cn' <yzm@wh.iov.cn>  
**Cc:** LeDuc, James W. <jwleduc@UTMB.EDU>; Dave Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>  
**Subject:** Meeting before the 7th International Symposium on Emerging Viral Diseases?

Greetings Dr. Zhiming Yuan,

As you know U.S. National Academy of Sciences colleagues Dr. David Franz, Dr. James LeDuc will visit Wuhan next week to attend the 7th International Symposium on Emerging Viral Diseases. We hope to speak to you during our visit about the possibility of holding a meeting between Chinese and U.S. experts sometime next year, possibly in Wuhan. You may recall the meeting we held in Beijing in late 2015 on the challenges of emerging infections, laboratory safety, and global health security (see the attached agenda). With your assistance we hope that a meeting in Wuhan in 2017 could continue the excellent engagement and discussion we began at the Beijing meeting. Thank you again for the invitation to attend the symposium and we look forward to speaking with you next week.

Kind regards,

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** Rusek, Benjamin  
**Sent:** Tuesday, October 11, 2016 8:00 PM  
**To:** 胡犇  
**Cc:** 'David Franz'  
**Subject:** RE: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Hi Ben,

The visa for Dr. Franz is in process and should be ready soon. I will happily pay for his registration and my registration if necessary (I will return to Beijing on the morning of Oct 20<sup>th</sup>). We are looking forward to meeting you and your colleagues as well as seeing your facilities and touring the BSL-4 laboratory next week.

Kind regards,

Benjamin J. Rusek  
Senior Program Officer  
Policy and Global Affairs Division  
The U.S. National Academy of Sciences, Engineering and Medicine  
Phone: 001-202-334-3975  
Cell: (b)(6)  
Fax: 001-202-334-1730  
Skype: (b)(6)

---

**From:** David Franz [mailto:davidrf Franz@gmail.com]  
**Sent:** Tuesday, October 11, 2016 9:46 AM  
**To:** 胡犇  
**Cc:** Rusek, Benjamin  
**Subject:** Re: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Hi Ben,

Thanks for the followup. Ben can answer the question about the visa. He or his staff have submitted my passport this week because both Ben and I were using our passports elsewhere. Normally the turn-around time is very quick by China's visa service in Washington DC. Yes, I will accompany Ben and Jim for all activities. I will ask Ben how he wishes me to pay for the registration as well.

Thanks again for all of your help. We look forward to seeing you next week. dave

David R. Franz DVM, Ph.D



On Oct 11, 2016, at 9:37 AM, 胡犇 wrote:

Dear Dr. Franz:

May I know whether your visa is ready?

Will you travel to Wuhan together with Prof. Le Duc and Dr. Rusek? We will arrange pick-up service for you at Wuhan Airport.

Another issue is about the registration fee payment method. You can either pay on site on 19th or pay on-line in advance in our website (on-line payment is available now). Please note that we only accept cash for onsite payment, but for on-line payment, visa, master cards, etc are all acceptable.

On 19th we will organize a visit to our BSL-4 lab, I think you may join in the visiting group with Prof. Leduc and Dr. Rusek.

Looking forward to seeing you soon

Best regards

Ben

-----原始邮件-----

发件人: "David Franz" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>

发送时间: 2016年8月14日 星期日

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送:

主题: Re: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Thanks Ben! Will do. dave

David R. Franz DVM, Ph.D



On Aug 13, 2016, at 7:32 PM, 胡犇 wrote:

Hello Dr. Franz:

Yes the focus of the talks on the meeting will be laboratory work about the emerging viruses. However, we still appreciate if you can submit an abstract regarding your expertise (abstract only, no presentation), as policy and management are important as well in the field.

Thanks a lot!

Best regards

Ben

-----原始邮件-----

发件人: "David Franz" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>

发送时间: 2016年8月14日 星期日

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送:

主题: Re: Confirmation of registration for the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Hu,

Thank you for your good and welcome response. I would be happy to submit an abstract, but I'm not sure my current expertise and experience is what you are looking for at this important technical virology meeting. I am no longer in the laboratory. I am now primarily involved in science policy, laboratory leadership and balanced regulation domestically and encouraging infectious disease cooperation globally. So anything I would submit would not contain actual hard laboratory data, but be focused more on the human factors important to successful and productive research and development. Am I correct in believing that such a presentation would NOT be of interest to the program committee? I have attached a short bio to give you a sense of my background and experience.



Chinese Academy of Sciences

The National Academies of Sciences,  
Engineering, and Medicine

The National Academies of

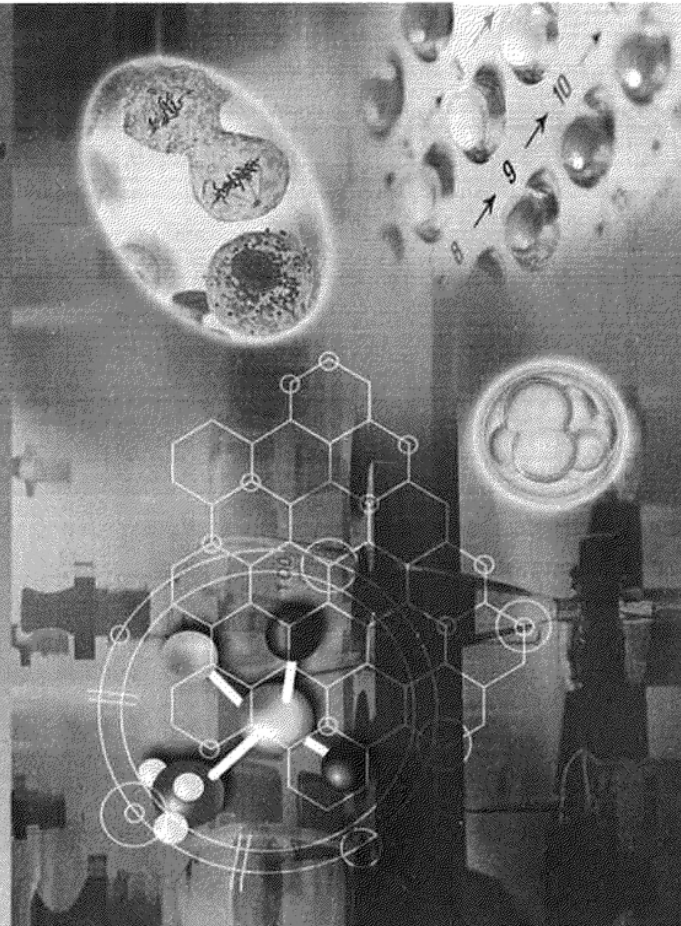
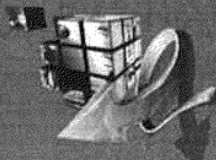
SCIENCES-ENGINEERING-MEDICINE

## CAS-NAS Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security

29-30 September 2015

Beijing, China

# Programme Handbook



## CAS-NAS Workshop on the Challenges of Emerging Infections, Laboratory Safety, and Global Health Security

2

### Table of Contents

Scientific Programme	3
Brief Introduction of Sessions and Speakers	6
Notes	18
Contacts	22
Location Map	23

#### Organized by:

Chinese Academy of Sciences

The National Academies of Sciences, Engineering, and Medicine

#### Co-organized by:

Beijing Institutes of Life Science, CAS

The Institute of Microbiology, CAS

Beijing, China September 29-30, 2015



## Scientific Programme

E301, Institute of Microbiology, CAS  
NO.1 Beichen West Road, Chaoyang District, Beijing

Sep. 29, 2015 AM

08:30-09:00	Registration
09:00-09:15	Opening Remarks by Yaping Zhang & Diane Griffin Chair: George Fu Gao
09:15-10:30	Session I: The "Safety-Security-Regulation-Progress" Chair: George Fu Gao
1. American Speaker	David Franz Finding the Balance Among Safety, Security, Regulation, and Progress: The U.S. Experience
2. Chinese Speaker	Qiang Wei Progress of Laboratory Biosafety Management in China
Panelists	David Franz, Qiang Wei, Diane Griffin & George Fu Gao
10:30-11:00	Tea break, group photo
11:00-12:30	Session II: Influenza Chair: Peter Palese & Yuelong Shu
1. American Speaker	Peter Palese Influenza: Paths to a Better Vaccine?
2. Chinese Speaker	Yuelong Shu Genetic tuning of avian influenza A (H7N9) virus promotes viral fitness within different species
3. Chinese Speaker	Yi Shi "Host jump" of avian flu
4. Chinese Speaker	Juan Pu The continue evolution and threat of H5 and H9N2 avian influenza viruses in China
Panelists	Peter Palese, Yuelong Shu, Yi Shi & Juan Pu
12:30-14:00	Lunch

Beijing, China September 29-30, 2015

Sep. 29, 2015 PM

14:00-15:30	Session III: Ebola and beyond Chair: Thomas Ksiazek & Wuchun Cao
1. American Speaker	Thomas Ksiazek Ebola: Sustainable Austere Environment Laboratories
2. Chinese Speaker	Wuchun Cao Emerging Tick-borne Infections in China: An Increasing Public Health Threat
3. Chinese Speaker	Di Liu Intra-host dynamics of Ebola virus
4. Chinese Speaker	Yigang Tong Genetic diversity and evolutionary dynamics of Ebola virus in Sierra Leone
Panelists	Thomas Ksiazek, Wuchun Cao, Di Liu, Yigang Tong, Jiafu Jiang & George Fu Gao
15:30-16:00	Tea break
16:00-17:30	Session IV: Middle East Respiratory Syndrome Chair: Ralph Baric & Wenjie Tan
1. American Speaker	Ralph Baric MERS: Genetic Systems and Models
2. Chinese Speaker	Zhengli Shi Bat coronaviruses associated with human diseases
3. Chinese Speaker	Wenjie Tan MERS-CoV vaccine development: Test in China CDC
4. Chinese Speaker	Deyin Guo Development of broad-spectrum inhibitors by targeting coronavirus methyltransferases
Panelists	Ralph Baric, Zhengli Shi, Wenjie Tan, Deyin Guo & George Fu Gao
17:30-18:00	Review of Day 1 and plan for Day 2 Chair: George Fu Gao
18:00-20:00	Dinner

Beijing, China September 29-30, 2015

Sep. 30, 2015 AM

09:00-10:00		Session V: Gain of Function Research Chair: David Franz & Wenjun Liu	
1. American Speaker	David Franz	NAS Gain-of-Function Meeting Report (The scientists' view)	
2. Chinese Speaker	Wenjun Liu	Phosphorylation regulates the replication of influenza A virus	
Panelists	David Franz, Wenjun Liu, Zhongliang Ma, Li Ruan & Chengfeng Qin		
10:00-10:30		Tea break	
10:30-12:00		Session VI: High-Containment Labs...Safe, Secure, Productive, and Sustainable Chair: Thomas Ksiazek & Zhiming Yuan	
1. American Speaker	Thomas Ksiazek	High Containment Laboratories: Putting the pieces of laboratory safety and global health security together	
2. Chinese Speaker	Zhiming Yuan	Biosafety management of high-level biosafety laboratory for emerging disease control	
3. Chinese Speaker	Mifang Liang	laboratory risk assessment for responding to emerging infectious disease	
Panelists	Thomas Ksiazek, Zhiming Yuan, Mifang Liang & Qiang Wei		
12:00-13:30		Lunch	

Sep. 30, 2015 PM

13:30-15:00		Session VII: Areas for Enhanced Cooperation Chair: Diane Griffin & George Fu Gao	
1. American Speaker	Diane Griffin	Possible roles for CAS and NAS in Enhancing Cooperation on these topics	
2. Chinese Speaker	George F. Gao	Global health & China's role	
Panel Lists	Diane Griffin, George Fu Gao, Benjamin Rusek, Zhengli Shi & Deyin Guo		
15:00-15:30		Closing Remarks	Chair : George Fu Gao

Beijing, China September 29-30, 2015

## Brief Introduction of Sessions and Speakers

### Vice Presidents:



Dr.

Yaping Zhang, Ph.D., is the Vice President of the Chinese Academy of Sciences (CAS). As a research professor of Kunming Institute of Zoology, he has been focusing his research on molecular evolution and genome biodiversity. His investigations involve the correlated areas: molecular phylogenetics; molecular ecology and conservation genetics; human genetics and evolution; origin of domestic animals and artificial selection; genome diversity and evolution. Dr. Zhang has published more than 300 publications in SCI journals and is the author and co-author of five books. He was elected member of American Society of Human Genetics in 1996, the Society for Molecular Biology and Evolution in 1997 and then American Genetic Association in 1998. He is also elected Vice President of Chinese Society of Genetics in 2004, Vice President of Chinese Society of Zoology in 2005, and President of Yunnan Association for Science and Technology in 2008. Dr. Zhang has won dozens of national science prizes in China, including Ho Leung Ho Lee Prize for Science and Technology by Ho Leung Ho Lee Foundation in 2004. Dr. Zhang received his Ph.D. degree from Kunming Zoology Institute of CAS and was a post-doctoral fellow at Zoological Society of San Diego, Center for Reproduction of Endangered Species, USA. He was elected CAS member in 2003 and fellow of Third World Academy of Sciences (TWAS) in 2007.

### Dr. Diane Griffin



Diane E. Griffin, M.D., Ph.D., is the Vice President of the National Academy of Sciences and Professor and Alfred and Jill Sommer Chair of the W. Harry Haston Department of Molecular Microbiology and Immunology at the Johns Hopkins University. Dr. Griffin focuses her work on alphaviruses, acute encephalitis, measles, and malaria. She has identified determinants of virus virulence and mechanisms of noncytolytic clearance of virus from infected neurons. She is also working on the effect of measles virus infection and immune activation in response to infection on the immune system. In Zambia, she and her colleagues are examining the effect of HIV infection on measles and measles virus vaccination. She is a past president of the American Society for Virology, Association of Medical School Microbiology Chairs, and American Society for Microbiology, and a member of the American Academy of Microbiology. She was elected to the National Academy of Sciences and the Institute of Medicine and serves on the councils for both. Dr. Griffin earned a biology degree from Augustana College, followed by an M.D. and a Ph.D. from Stanford University. She completed her residency in Internal Medicine at Stanford University Hospital.

### Executive Chair:



### Dr. George Fu Gao

George Fu Gao, DPhil (Oxon), is the Director and Professor in CAS Key Laboratory of Pathogenic Microbiology and Immunology, Institute of Microbiology, Chinese Academy of Sciences. He is also the Vice President of Beijing Institutes of Life Science, Chinese Academy of Sciences, and Deputy Director-General of Chinese Center for Disease Control and Prevention (China CDC). His research is focusing on mechanisms of interspecies transmission ("host jump") of pathogens, especially interaction between the enveloped viruses and host, and molecular immune recognition. He has published more than 330 refereed papers. He was selected in the Chinese Academy of Sciences "Hundred Talents" program in 2004, and got National Natural Science Foundation of China (NSFC) Distinguished Young Scholar title in 2005. He is the chief scientist of two consecutive 973 project "mechanism of interspecies transmission of viral pathogens" (2005, 2011), and a leading principal investigator of the NSFC Innovative Research Group. He is also a steering committee member of International Consortium of Anti-Virals (ICAV), and visiting professor in Oxford University, UK. He has been awarded TWAS prizes in Medical Sciences in 2012, and been awarded Nikkei Asia Prize in 2014. He obtained his Ph.D (DPhil) degree in 1995 from Oxford University, UK. He was elected CAS member in 2013, fellow of The World Academy of Sciences (TWAS) in 2014 and fellow of American Academy of Microbiology (AAM) in 2015.

Beijing, China September 29-30, 2015



## Session I: The "Safety-Security-Regulation-Progress"

### Conundrum:

*This session will touch on issues associated with high-containment labs globally, but focus on policy issues that are pertinent to labs in the United States and China. High containment laboratories are being created for a variety of purposes including: human health/public health, animal health, agriculture, basic research, including synthetic biology, product development, test and evaluation, and security/forensics. High containment laboratories are managed primarily by governments, including health, agriculture, defense, and other ministries, but also in some cases by academia and commercial industry. The proliferation of high containment laboratories underscores the importance of developing a biological risk management approach that facilitates research and public health in enhancing biological safety and laboratory biological security in both new and existing facilities. The speakers will outline Chinese and U.S. issues related to the balance between safety, security, and progress. Speakers will introduce the concept of achieving a balance between safety, regulation, and advancing life science research on dangerous pathogens.*



**Dr. David Franz**

David R. Franz, DVM, Ph.D., holds an adjunct appointment as Professor for the Department of Diagnostic Medicine and Pathobiology at the College of Veterinary Medicine, Kansas State University. His current focus and research relates to the role of international engagement in the life sciences as a component of national security policy. Dr. Franz holds a DVM from Kansas State University and a Ph.D. in Physiology from Baylor College of Medicine. Dr. Franz served in the U.S. Army Medical Research and Materiel Command for 23 of 27 years on active duty and retired as Colonel. He served as Commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) and as Deputy Commander of the Medical Research and Materiel Command. Dr. Franz was the Chief Inspector on three United Nations Special Commission biological warfare inspection missions to Iraq. He also served as a member of the first two U.S.-U.K. teams that visited Russia in support of the Trilateral Joint Statement on Biological Weapons and as a member of the Trilateral Experts' Committee for biological weapons negotiations. Dr. Franz was Technical Editor for the Textbook of Military Medicine on Medical Aspects of Chemical and Biological Warfare released in 1997. Dr. Franz has co-chaired, chaired or served as a member on over twenty NAS committees.



**Dr. Qiang Wei**

Qiang Wei, Ph.D., Professor, is the deputy director of Office for Laboratory Management, Chinese Center for Disease Control and Prevention (China CDC). In Nov 2004 with the enacting of the Regulation on Biosafety Management of Pathogenic Microbe Labs by the State Council, Dr. Wei has been engaging in the laboratory biosafety management and related research working field since that time. Dr. Wei participates in several drafting working of regulations and standards regarding biosafety management issued by National Health and Family Planning Commission, PRC, and China National Accreditation Service for Conformity Assessment.

**Dr. Diane Griffin (See her introduction on page 6)**

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

## Session II: Influenza

### Conundrum:

*Seasonal influenza remains a major cause of morbidity and mortality worldwide annually and the specter of pandemic flu remains with us. There has been a great deal of excellent basic and applied research conducted both in China and the United States in recent years. This session will touch on issues associated with the virus, the disease load in both our countries and the enormous strides being made to both understand viral pathogenesis and develop medical countermeasures.*



**Dr. Peter Palese**

Peter Palese, Ph.D. (NAS, IOM), is Professor of Microbiology and Chair of the Department of Microbiology at the Mount Sinai School of Medicine in New York. He has over 270 scientific publications that include research on the replication of RNA-containing viruses with a special emphasis on influenza viruses, which are negative-strand RNA viruses. Specifically, he established the first genetic maps for influenza A, B and C viruses, identified the function of several viral genes, and defined the mechanism of neuraminidase inhibitors (which are now FDA-approved antivirals). Dr. Palese also pioneered the field of reverse genetics for negative strand RNA viruses, which allows the introduction of site-specific mutations into the genomes of these viruses. This technique is crucial for the study of the structure/function relationships of viral genes, for investigation of viral pathogenicity and for development and manufacture of novel vaccines. In addition, an improvement of the technique has been effectively used by him and his colleagues to reconstruct and study the pathogenicity of the highly virulent but extinct 1918 pandemic influenza virus. His recent work in collaboration with Garcia-Sastre has revealed that most negative-strand RNA viruses possess proteins with interferon antagonist activity, enabling them to counteract the antiviral response of the infected host. Dr. Palese was elected to the National Academy of Sciences in 2000 for his seminal studies on influenza viruses. At present he serves on the editorial board for the Proceedings of the National Academy of Sciences and as an editor for the Journal of Virology. Dr. Palese was president of the Harvey Society in 2004, president of the American Society for Virology in 2005 and he was a recipient of the Robert Koch Prize in 2006 and of the Charles C. Shepard Science Award in 2008.



**Dr. Yuelong Shu**

Yuelong Shu, Ph.D., is the director of WHO Collaborating Center for Reference and Research on Influenza (WHO CC), director of Chinese National Influenza Centre (CNIC) and deputy director of National Institute for Viral Disease Control and Prevention (NIVDC) at Chinese Center for Disease Control and Prevention (China CDC). His research area is mainly on molecular evolution, the mechanisms of interspecies transmission, infectivity, and pathogenicity of influenza viruses, and the new detection techniques development and vaccine and drug-related research. In 2013, he firstly discovered a novel H7N9 avian influenza virus caused severe human infection in China. He leads the studies on the biological features of the H7N9 avian influenza virus; the findings provided scientific insights for the infectivity, transmissibility and pathogenesis of the novel virus. He successfully developed diagnosis kits for H7N9 virus to improve the clinical treatment. He also firstly identified the avian influenza H10N8 and H5N6 viruses caused human infection. He made great contributions to the prevention and control of H5N1 and pandemic H1N1 2009 such as diagnosis kits development.

Beijing, China September 29-30, 2015

**Dr. Yi Shi**



Yi Shi, Ph.D., is an associate professor of structural biology at Beijing Institutes of Life Science, Chinese Academy of Sciences(CAS), Beijing, China. He focuses on the molecular interaction between pathogen and host, especially molecular mechanism of interspecies transmission of influenza viruses, and also molecular recognition by immune molecules.

**Dr. Juan Pu (On behalf of Dr. Jinhua Liu)**



Juan Pu, Ph.D., is an associate Professor of Key Laboratory of Animal Epidemiology and Zoonosis, College of Veterinary Medicine, China Agricultural University. Dr. Pu's interests include the phylogeny, antigenicity, infectivity and interspecies transmission of avian influenza virus. Dr. Pu received her Ph.D in Preventive Veterinary Medicine, China Agricultural University in 2008 and worked as a visiting scientist at St. Jude Children's Research Hospital during 2013-2014.

**Dr. Jinhua Liu**



Jinhua Liu, Ph.D., is a Professor of Key Laboratory of Animal Epidemiology and Zoonosis, College of Veterinary Medicine, China Agricultural University. He is Chair of Preventive Veterinary Medicine, College of Veterinary Medicine. Dr. Liu focuses his work on avian influenza, in particular the epidemiology and molecular epidemiology, and pathogenicity mechanism of avian influenza virus. He is the first in identifying H5N1 viruses in migratory birds in Qinghai Lake in 2005. He also showed the epidemic trends of H9N2 and H5N1 viruses in China and found that evolution of the single H9N2 influenza genotype that facilitated the genesis of the novel H7N9 virus. His group also evaluated the risk of the novel clade 2.3.4.4 H5 virus emerged in worldwide. Dr. Liu received his Ph.D in Preventive Veterinary Medicine, China Agricultural University in 1997 and had the post-doctoral training at Hokkaido University in Japan during 2000-2002.

Beijing, China September 29-30, 2015

**Session III: Ebola and beyond**

**Conundrum:**

*Ebola, once a disease of the African bush, occasionally jumping from animals to a few humans, demonstrated itself as a powerful and devastating force in urban West Africa in the last year. Both China and the United States—while little impacted directly—provided support to the region and continue to assist even after the outbreak is mostly contained. This session will touch on issues associated with the virus, the outbreak, and the way ahead as we work to prepare for this virus and others globally.*

**Dr. Thomas Ksiazek**



Thomas Ksiazek, Ph.D., is the director of high containment laboratory operations for the Galveston National Laboratory at the University of Texas Medical Branch. In addition to his work for the Galveston National Laboratory, he is a professor in the departments of pathology and microbiology and immunology at the University of Texas Medical Branch. Dr. Ksiazek is also director of the National Biodefense Training Center and a world-renowned virus expert with 40 years of experience on the front lines of some of the worst outbreaks the world has ever seen. Before coming to the medical branch, he was chief of the Special Pathogens Branch at the CDC in Atlanta where he coordinated outbreak and control responses to especially dangerous pathogens such as Ebola, Marburg and SARS. He was one of the discoverers of the SARS virus. Through the years, he has played a significant role in disease discovery and outbreak response efforts in Asia, Africa, South America and the Middle East. He has a bachelor's degree in biological sciences and a DVM from Kansas State University, a master's degree in virology from the University of Wisconsin, Madison, and a Ph.D. in epidemiology/virology from the University of California, Berkeley. He is the author of more than 350 research papers.

**Dr. Wuchun Cao**



Wuchun Cao, Ph.D., received a medical degree from Shandong Medical University in 1985. After getting a WHO fellowship in 1990, he was trained in Epidemiology of Infectious Diseases at the Faculty of Tropical Medicine, Mahidol University, and enrolled the Master program in Health Economics at Chulalongkorn University, Bangkok, Thailand. Then he transferred to Erasmus University, Rotterdam, the Netherlands, where he received his M.Sc and Ph.D degrees. Since returning to China, he has been working at Institute of Microbiology and Epidemiology (IME), Academy of Military Medical Sciences (AMMS), first as a postdoctoral fellow and subsequently as an associate professor and a professor. He worked as a visiting scholar in Institute of Public Health, Cambridge University, UK and Karolinska Institute, Stockholm, Sweden. He is currently a professor of Microbiology and Epidemiology, and appointed as the general director of IME, AMMS and the director of the State Key Laboratory of Pathogen and Biosecurity. His research interests are epidemiology and control of infectious diseases, especially emerging infectious diseases, molecular spatial epidemiology and bio-defense. He has published over 300 papers among which 176 were published in SCI journals with a total Impact Factor of 1002. He was awarded the First Class National Prize for Progress in Science and Technology, China in 2011. He is the members or standing members of 25 scientific associations or consulting committees, and editing members of 15 national scientific journals.

Beijing, China September 29-30, 2015

**Dr. Di Liu**



Di Liu, Ph.D., is a Professor of the Institute of Microbiology, Chinese Academy of Sciences. His research focuses on applying bioinformatics approaches and evolution models to study transmission and evolutionary dynamics of pathogens of emerging infectious diseases. In recent studies, he has clarified the origin and transmission dynamics of the novel H7N9 avian influenza virus and unraveled the diversity and dynamics of the Ebola virus in Sierra Leone, 2014. Dr. Liu received his bachelor's degree in biophysics and Ph.D. in bioinformatics from Peking University and was a post-doctoral fellow at the Institute of Microbiology, Chinese Academy of Sciences.

**Dr. Yigang Tong**



Yigang Tong, Ph.D., graduated from Fudan University and got his Ph.D. degree in the Academy of Military Medical Sciences. He received postdoctoral training in the University of British Columbia (UBC), where he received Michael Smith Award. He is currently a professor in State Key Laboratory of Pathogen and Biosecurity. He has published more than 70 papers in international journals such as Nature, Journal of Virology, Journal of General Virology, Emerging Infectious Diseases, Journal of Biological Chemistry, etc. His major research interests are etiologic agents of emerging infectious diseases, high throughput sequencing techniques and bioinformatics approaches for novel pathogen identification and characterization, and bacteriophage based prevention and treatment of multi-drug resistance bacterial infections. He has invented a PCR-based technique to clone full-length cDNA of multiple exons blood cells without mRNA preparation and reverse transcription. He discovered that the high frequency reads in deep sequencing data represents the terminal sequences of the sequenced linear genome, which provide a cheap and convenient method for identification of bacteriophage genome termini. After the outbreak of Ebola epidemic in West Africa, he went to Sierra Leone as the Chief Scientist with the third batch of Chinese Medical and Testing team. Besides the Ebola testing work, he and his team sequenced hundreds of Ebola samples and got 175 full length genome sequences of the ebola viruses. The results were published online on Nature magazine in May 2015.

**Dr. Jiafu Jiang**



Jiafu Jiang, Ph.D., is an associate professor of Beijing Institute of Microbiology and Epidemiology. His current research has focused on the epidemiology study of rodent and tick borne emerging infectious disease that have important public health implications, including hemorrhagic fever with renal syndrome, anaplasmosis, babesiosis infection, rickettsiosis etc. In recent studies, he provided evidence of epidemiological and clinical feature of confirmed and non-confirmed Ebola virus disease (EVD) patients, as well as aspects combining laboratory and the clinical data in 2014 EVD outbreak in western Africa based on his work experience in Sierra Leone. At recently years, as first author or corresponding author, he has published 12 papers in the international peer-reviewed medical journals such as Virus Res, Clin Microbiol Infect, Emerg Infect Dis, Lancet Infect Dis and N Engl J Med, with a total impact factor of 130. Now he is conducting research program sponsored by the National Natural Science Foundation of China and National Key Technology Support Program.

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

## Session IV: Middle East Respiratory Syndrome (MERS) Conundrum:

*The etiology of Middle East Respiratory Syndrome, like that of the Ebola outbreak is a zoonotic virus. Emerging initially in Saudi Arabia, MERS, unlike Ebola has found a significant foothold geographically outside the region of emergence. This session will touch on issues associated with understanding the virus, its pathogenesis, and the implications for dealing with the outbreak, developing medical countermeasures, and preparation for the unknown future.*

**Dr. Ralph Baric**



Ralph Baric, Ph.D., is a Research Professor in Microbiology and Immunology at the University of North Carolina at Chapel Hill School of Public Health. The Baric Group uses genetic, immunologic and biochemical approaches to study the molecular mechanisms regulating viral replication, pathogenesis, evolution, virus-host interactions and cross species transmission using coronaviruses and noroviruses as model systems. In recent work, he has used a human antibody-phage library to identify seven human neutralizing antibodies specific for the receptor-binding domain of the MERS-CoV Spike protein. He is a fellow of the American Society for Microbiology and a member of the American Society for Virology and the American Association for the Advancement of Science. Dr. Baric received his Ph.D. in Microbiology from North Carolina State University and was a post-doctoral fellow at the University Of Southern California School Of Medicine in the Department of Microbiology and Neurology.

**Dr. Zhengli Shi**



Zhengli Shi, Ph.D., is the director of the Center for Emerging Infectious Diseases of the Wuhan Institute of Virology. Her research focuses on viral pathogen discovery through traditional and high-throughput sequencing techniques. She has been studying the wildlife-borne viral pathogens, particularly bat-borne viruses since 2004. Her group has discovered diverse novel viruses/virus antibodies in bats, including SARS-like coronaviruses, adenoviruses, adeno-associated viruses, circoviruses, paramyxoviruses and filoviruses in China. One of her great contributions is to uncover genetically diverse SARS-like coronaviruses in bats with her international collaborators and provide unequivocal evidence that bats are natural reservoir of SARS-CoV by isolation of one strain that is closely related to the SARS-CoV in 2002-3. She has coauthored >80 publications on viral pathogen identification, diagnosis and epidemiology.

Beijing, China September 29-30, 2015

**Dr. Wenjie Tan**



Wenjie Tan, M.D., Ph.D., is Chief of Biotech Center for Viral Disease Emergency and Professor of National Institute for Viral Disease Control and Prevention, China CDC. His recent study fields focus on diagnosis and surveillance of HCOVs (including MERS-CoV, SARS-CoV) and emerging respiratory viral diseases in China. He is also working on R&D of vaccine against viral diseases. Various elements of vaccine design and delivery, including optimization of viral vector and protein design, adjuvant, and routes of delivery, are studied. He was a recipient of the Second Prize for National Science and Technology Advancement in China from the State Science and Technology Commission in 1997. Dr. Tan earned a M.D. from Beijing Medical University and Ph.D. from Chinese Academy of Preventive Medicine (CAPM). He was a post-doctoral fellow at the University Of Southern California School Of Medicine and University of California in Los Angeles (UCLA).

**Dr. Deyin Guo**



Deyin Guo, Ph.D., is Professor of Virology at the School of Basic Medical Sciences (SBMS) and the College of Life Sciences, Wuhan University. He also serves as the Dean of SBMS and Deputy Director of the National Key Laboratory of Virology. Dr. Guo focuses his work on molecular mechanisms of the infection and pathogenesis of RNA viruses, in particular on the RNA genome replication and immune escape of coronaviruses. He has uncovered novel mechanisms of RNA modification and established high throughput platform for screening inhibitors targeting coronavirus methyltransferases. His group also adopts gene editing technologies to genetically modify or disrupt the HIV receptors and provirus of T cells and hematopoietic stem cells of the patients, aiming at functional cure of HIV/AIDS by genetic therapy. Guo obtained his Ph.D in Microbiology from the Faculty of Biosciences, Braunschweig University of Technology in Germany, and received his postdoctoral training at the Institute of Biotechnology, University of Helsinki, Finland. He has been professor in microbiology at Wuhan University since 2002.

**Dr. George Fu Gao (See his introduction on page 6)**

Beijing, China September 29-30, 2015

**Session V: Gain of Function Research**

**Conundrum:**

*The new tools of molecular biology and genetics, now globally available, have made what only nature could do, typically slowly, attainable in the laboratory in days or weeks. While the tools will greatly enhance our ability to both understand disease and develop countermeasures, they could also be used for great harm, either accidentally or intentionally. This session will touch on issues associated with gain of function (Gof) research and policy in both our countries and give us an opportunity to share thoughts and ideas regarding the way ahead. Is there research that is too dangerous to undertake? Will we know it when we see it and how can we balance a sometimes only partially understood risk with the benefit that might come from such work?*

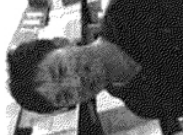
**Dr. David Franz (See his introduction on page 10)**

**Dr. Wenjun Liu**



Wenjun Liu, DVM/Ph.D., is the deputy director of CAS Key Laboratory of Pathogenic Microbiology of Immunology, Institute of Microbiology, Chinese Academy of Science. He received his DVM from Beijing Agricultural University in Beijing and Ph.D from the University of Florida in Gainesville, Florida. He had worked at China Agricultural University (1985-1989) and National Animal Disease Center of USDA (1988-1989), Howard Hughes Medical Institute/Oklahoma Medical Research Foundation (1998-2001), and Genzyme Corporation (2001-2004). Now he is a professor and deputy director in CAS Key Laboratory of Pathogenic Microbiology of Immunology, Institute of Microbiology, Chinese Academy of Science. He is also the director of Biosafety Level 3 Laboratory, Institute of Microbiology, Chinese Academy of Science. His lab focuses on the molecular biology of viruses, the interactions of viruses with host cells, the post-translational modification of viral proteins, and mechanisms of host defense. The research works are designed to increase fundamental knowledge as well as to facilitate the development of new approaches to control of viral infection. In his research area, Dr. Liu has published nearly 70 research articles and reviews.

**Dr. Zhongliang Ma**



Zhongliang Ma, Ph.D., Member of Shanghai Society of Microbiology, Associate Professor, Shanghai University. He received his Ph.D in Institute of Microbiology, Chinese Academy of Science (2003). He had worked at China Pharmaceutical University (1996-1999) and as postdoc in 2003-2006. Now he works at School of Life Sciences, Shanghai University. In 2013-2014, he worked in MD Anderson Cancer Center in USA as senior visiting scholar. He focuses on biology of noncoding RNA (microRNA, long noncoding RNA and tRNA derived fragments) in cancer. Dr. Ma has published nearly 30 research articles and reviews. He also does research on Bioethics, published a book called Bioethics in today.

Beijing, China September 29-30, 2015



**Dr. Li Ruan**



Li Ruan, M.D. & Ph.D., as a doctor and researcher, he once held the post of Director of Institute for Viral Disease Control and Prevention of Chinese Centre for Disease Control and Prevention and chief of Biotech Center for Virus Disease Emergency. Since 1980, he has focused on the study of heritable variation and immunization of viruses and engaged in the research and development of biological technology including genetically engineered vaccines. In recent years, he was responsible for the monitoring of SARS and prevention and control of poxvirus related diseases such as smallpox and monkeypox. He was also responsible for over 20 research projects sponsored by national science and technology projects, national hi-tech research and development plan, major sci-tech project, natural science fund, American NIH, EU and Ministry of Health, amongst others. He established two genetic expression systems using mammalian cells and recombinant vaccinia virus Tianjin strain and successfully researched Hepatitis B genetic engineering vaccine and Phase I clinic trials of five vaccinia recombinant vaccines. He was awarded a certificate of distinguished visiting scientist at Mount Sinai School of Medicine, New York in 1986, a certificate of excellent returned overseas researcher who made outstanding contributions to the state in 1991, a government special allowance in 1991, the National Science Fund for Distinguished Young Scholars (NSFDS) in 1995, the title of National Expert with Remarkable Contributions in 1996, the first prize of the National Science and Technology Progress in Recombinant Hepatitis B Vaccine Research in 1993 and the second prize of the National Science and Technology Progress in Research and Application of High-Efficiency Expression System Derived from Vaccinia Virus Tianjin Strain. He has also won other 4 provincial and ministry prizes, was involved in producing over 20 books, applied for 11 patents and published over 200 papers.

**Dr. Chengfeng Qin**



Chengfeng Qin, Ph.D., is the Director of Department of Virology, Institute of Microbiology and Epidemiology, AMMS. After graduated from Wuhan University, Dr. Qin obtained his Ph.D degree in Microbiology in Academy of Military Medical Sciences. Dr. Qin's combine reverse genetics and chemical modification to study flavivirus pathogenesis and improve vaccine stability. He has been awarded as the National Excellent Young Scientist Program of NSFC, the joint Award of Institute Merieux and Chinese Society of Microbiology, and the ADVAC fellowship from Foundation Merieux. He has authored more than 80 research papers and held a dozen of national and PCT patents on vaccine candidate and diagnosis kits. He serves as scientific editor or editorial board member of several international journals including Scientific Reports, BMC Infectious Diseases, Military Medicine Research, etc.

Beijing, China September 29-30, 2015

**Session VI:  
High-Containment Labs...Safe, Secure, Productive, and Sustainable  
Conundrum:**

*This session will discuss the need for high containment laboratories; construction and maintenance costs; laboratory safety and security issues; environmental risks; training; community relations; what to do in a crisis; and emerging technology in biology. The importance of laboratory leadership and a healthy social culture may also be addressed.*

**Dr. Thomas Ksiazek (See his introduction on page 7)**

**Dr. Zhiming Yuan**



Zhiming Yuan, Ph.D., got his PhD on microbiology and biotechnology at Sun Yat-sen University, and then trained and worked in France, Denmark, and United States for several years. He has been working as a Professor in Wuhan Institute of Virology, the President of Wuhan Branch, Chinese Academy of Sciences since year 2000. As a principal investigator, his research group works on the diagnosis and drug discovery of abortiviruses, genomics, insecticidal proteins and their mode of action, genetically modification of entomopathogenic bacteria (*Bacillus spp.*), as well as the production, standardization and application of bio-pesticide and other microbial agents. Since 2003, he was appointed the Chairman of Institutional Biosafety Committee, member of National Laboratory Biosafety Committee, advisor of different national technical committees on biosafety management, general manager of National High-Level Biosafety Laboratory in Wuhan. He also works as a group leader on Sino-French biosafety legislation cooperation. In addition, he was elected as President of Hubei Society for Microbiology in 2008. Along providing expertise and consultative services to both private companies and government institutions on matters of biotechnology and biosafety, he has given many lectures to national and international audiences. He published more than 150 scientific papers on *Bacillus spp.* and abortiviruses during his career.

**Dr. Mifang Liang**



Mifang Liang, Ph.D., Head of Laboratory of Viral Hemorrhagic Fever (VHF), National Institute for Viral Disease Control and Prevention, China CDC, is an active and highly respected virology professor in China, she was awarded as an expert to enjoy Special Government Allowance from the State Council. She received her medical doctor degree in Zhejiang University and Chinese Academy of Preventive Medicine in China in 1988, and post doctor training in USAMRIID, Fort Detrick, USA for VHF researches from 1992-1996. She was invited as a visiting professor in the University of Heidelberg, Germany from 1998-2000. She has been working on hemorrhagic fever (VHF) viruses for nearly 30 years, including hantavirus, Dengue virus, Chikungunya virus, CCHF virus, SFTS virus and the Ebola virus. As an national VHF expert, in the world responses to the outbreak of EVD, she played an active role in preparation of national documents related to Ebola virus laboratory diagnosis, biosafety assessment, laboratory training and biosafety so on. She also played key role in the development of EVD diagnosis kit, which was first issued by Chinese FDA, provided to China CDC lab team to be used for clinical diagnosis of EVD in Sierra Leone as well as the national and provincial laboratories for monitoring, contact tracing and clinical diagnosis of possible imported suspected EVD cases in China. She gained several national prizes in past years for her scientific contributions to medical science, and owned more than 20 patents and over 150 publications in VHF related research fields. Prof. Liang is also a national top biosafety expert involved in BSL-3 and BSL-4 facilities, resources, laboratory biosafety operations.

**Dr. Qiang Wei (See his introduction on page 7)**

Beijing, China September 29-30, 2015

**Session VII:  
Roundtable discussion and Areas for Enhanced Cooperation**

**Conundrum:**

*This session will focus on the goal of establishing collaborative partnerships. Discussion topics could include initiation/planning of additional academies-hosted workshops, bilateral or regional, addressing issues and policy challenges specific to containment laboratories and infectious disease research more broadly and improving the functionality and utility of biosafety associations. The session could also address joint training, student exchange or collaborative preparation for emerging disease outbreak response or public, government, industry and academia education about laboratory safety, security and responsible life-sciences research.*

**Dr. Diane Griffin (See her introduction on page 6)**

**Dr. George Fu Gao (See his introduction on page 6)**

**Dr. Benjamin Rusek**

Benjamin Rusek, senior program officer for in the Policy and Global Affairs Division of the National Academies of Sciences, Engineering, and Medicine. He has supported successful collaborative work with Chinese counterparts for more than ten years, serving as the study director for the project that produced the NAS report Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories (2012). He has organized workshops in India, Brazil, and other countries, often focused on the life sciences. He has been a member of the Executive Board of International Student/Young Pugwash since 2005 and Chair of ISYP from 2008-2013. He previously held various positions at the Henry L. Stimson Center, the Arms Control Association, and the U.S. National Air and Space Museum. Ben has a B.A. in political science from Ohio State University and an M.A. in political science from Purdue University.

**Dr. Zhengli Shi (See her introduction on page 12)**

**Dr. Deyin Guo (See his introduction on page 13)**

**NOTES:**

---

**From:** LeDuc, James W.  
**Sent:** Thursday, October 13, 2016 1:23 PM  
**To:** Husbands, Jo; David Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Cc:** Lowenthal, Micah; Guenther, Rita; Bowman, Katherine  
**Subject:** RE: Updates for your upcoming China trip

Thanks very much, Jo. This is very useful information. Thank you for sharing it.

Jim

James W. Le Duc, Ph.D.  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) bvc

**From:** Husbands, Jo [mailto:JHusband@nas.edu]  
**Sent:** Thursday, October 13, 2016 12:10 PM  
**To:** David Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; LeDuc, James W. <jwleduc@UTMB.EDU>; Rusek, Benjamin <BRusek@nas.edu>  
**Cc:** Lowenthal, Micah <mloventh@nas.edu>; Guenther, Rita <RGuenther@nas.edu>; Bowman, Katherine <KBowman@nas.edu>  
**Subject:** Updates for your upcoming China trip

Hullo,

I wanted to send you some updates for your upcoming trip to China, so that you won't be surprised if some things come up, and in hopes that you might also learn things of mutual interest.

First, the Chinese Academy has named a new focal point for the IAP Biosecurity Working Group -- Prof. Chen Xinwen, Director General of CAS Wuhan Institute of Virology. We found this out in late August and as of now have not had any direct contact with him. I don't know if this will come up when you visit, but we wanted you to be aware of the new connection.

If it does, you might want to tell him that we have made a proposal to IAP for funds to undertake a strategic planning process for the group, which will be influenced by the outcome of the BWC review conference in November, where there is some chance a science advising mechanism will emerge. If successful, there would be a meeting in Geneva, probably in February, and we would want CAS to be represented.

In addition -- and also of interest for CISAC, we hope -- the EU is funding a series of regional workshops on S&T issues for the BWC, which will be held next year (the full EU grant to the BWC may be found at [http://www.unog.ch/80256EE600585943/\(httpPages\)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument](http://www.unog.ch/80256EE600585943/(httpPages)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument)). The goals of the workshops are

**Enhancing interaction with non-governmental stakeholders on science and technology** through a series of regional workshops on scientific and technological issues and on biosafety and biosecurity. Moreover, the project will directly engage scientists and biosafety professionals in developing countries in order to raise awareness of the BWC, to develop capacities for more effective implementation of the BWC and to facilitate international cooperation for peaceful purposes.

The BWC staff have asked IAP to help identify participants and we see this is as a major opportunity, and something we hope will be of interest for the CAS.

One more thing. The Chinese government proposed in Geneva last December that the BWC should create a "template" for codes of conduct for scientists (attached). Pakistan has now become a co-sponsor and we heard that the Chinese Academy might now be engaged somehow. Given the CAS engagement in various international conversations about responsible science, which the CISAC group has helped promote, we thought this might also be of interest.

Hope this information is useful and look forward to hearing more when you return.

Cheers,  
Jo



---

**From:** Husbands, Jo <JHusband@nas.edu>  
**Sent:** Thursday, October 13, 2016 4:50 PM  
**To:** LeDuc, James W.; David Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Cc:** Lowenthal, Micah; Guenther, Rita; Bowman, Katherine  
**Subject:** Re: Updates for your upcoming China trip

You're very welcome. In a somewhat related note, we have been talking with the European academies network about building on the common ground between their report on GOF and the NSABB's work. First step would be a small US-European discussion early next year, but then the aim would be to make the conversation global. Given your earlier discussions with CAS, this might also be of interest (in addition, of course, to your NSABB hat).

Cheers,  
Jo

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network

**From:** LeDuc, James W.  
**Sent:** Thursday, October 13, 2016 2:23 PM  
**To:** Husbands, Jo; David Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Cc:** Lowenthal, Micah; Guenther, Rita; Bowman, Katherine  
**Subject:** RE: Updates for your upcoming China trip

Thanks very much, Jo. This is very useful information. Thank you for sharing it.

Jim

James W. Le Duc, Ph.D.  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** Husbands, Jo [mailto:JHusband@nas.edu]  
**Sent:** Thursday, October 13, 2016 12:10 PM  
**To:** David Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; LeDuc, James W. <jwleduc@UTMB.EDU>; Rusek, Benjamin <BRusek@nas.edu>  
**Cc:** Lowenthal, Micah <mlowenth@nas.edu>; Guenther, Rita <RGuenther@nas.edu>; Bowman, Katherine <KBowman@nas.edu>  
**Subject:** Updates for your upcoming China trip

Hullo,

I wanted to send you some updates for your upcoming trip to China, so that you won't be surprised if some things come up, and in hopes that you might also learn things of mutual interest.

First, the Chinese Academy has named a new focal point for the IAP Biosecurity Working Group -- Prof. Chen Xinwen, Director General of CAS Wuhan Institute of Virology. We found this out in late August and as of now have not had any direct contact with him. I don't know if this will come up when you visit, but we wanted you to be aware of the new connection.

If it does, you might want to tell him that we have made a proposal to IAP for funds to undertake a strategic planning process for the group, which will be influenced by the outcome of the BWC review conference in November, where there is some chance a science advising mechanism will emerge. If successful, there would be a meeting in Geneva, probably in February, and we would want CAS to be represented.

In addition -- and also of interest for CISAC, we hope -- the EU is funding a series of regional workshops on S&T issues for the BWC, which will be held next year (the full EU grant to the BWC may be found at [http://www.unog.ch/80256EE600585943/\(httpPages\)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument](http://www.unog.ch/80256EE600585943/(httpPages)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument)). The goals of the workshops are

**Enhancing interaction with non-governmental stakeholders on science and technology** through a series of regional workshops on scientific and technological issues and on biosafety and biosecurity. Moreover, the project will directly engage scientists and biosafety professionals in developing countries in order to raise awareness of the BWC, to develop capacities for more effective implementation of the BWC and to facilitate international cooperation for peaceful purposes.

The BWC staff have asked IAP to help identify participants and we see this is as a major opportunity, and something we hope will be of interest for the CAS.

One more thing. The Chinese government proposed in Geneva last December that the BWC should create a "template" for codes of conduct for scientists (attached). Pakistan has now become a co-sponsor and we heard that the Chinese Academy might now be engaged somehow. Given the CAS engagement in various international conversations about responsible science, which the CISAC group has helped promote, we thought this might also be of interest.

Hope this information is useful and look forward to hearing more when you return.

Cheers,  
Jo



中国科学院武汉病毒研究所  
WUHAN INSTITUTE OF VIROLOGY, CAS

**James Leduc, PhD**

Director, Galveston National Laboratory,  
University of Texas Medical Branch, Galveston, United States

**David Franz, DVM, PhD/Benjamin Rusek, PhD**

National Academy of Sciences, Washington DC, United States

**DRAFT**

**Tuesday, October 18, 2016**

9:50-11:30pm	<b>Dr Han Xia will pick up Drs Leduc, Franz, Rusek from Wuhan airport and send to Hongshan Hotel</b>	<b>Hongshan Hotel</b>
--------------	--	-----------------------

**Wednesday, October 19, 2016**

9:30 - 11:30am	<b>Meeting with:</b> Dr Zhiming Yuan Director, The Wuhan Branch of Chinese Academy of Sciences Professor, Arbovirus and vector control Dr Zhengli Shi Professor, Emerging viruses Dr Bo Zhang Professor, Flavivirus Infection & Prevention Dr Quanjiao Chen Associate professor, Molecular Biology of the Influenza Virus Dr Xiaomin Hu Associate professor, Arbovirus and vector control Dr Han Xia Associate professor, Arbovirus and vector control Yinhua Yi Postdoc candidate	<b>No.5 meeting room</b>
12:00 – 1:30pm	<b>Lunch</b>	<b>Chagang Restaurant</b>
2:00 - 4:00pm	<b>Wuhan National Biosafety Laboratory Tour</b>	
6:00pm	<b>Dinner</b>	<b>Xiaonanjing restaurant</b>



**Thursday, October 20, 2016**

8:30-10:00am	<b>Symposium on Emerging Viral Diseases</b> <b>Opening address and Group Photo of Symposium Participants</b>	<b>No.5 meeting room</b>
9:40-11:30am	<b>Drive Dr. Rusek from Hongshan hotel to Wuhan airport (domestic, depart 12:30pm at Terminal 2)</b>	
12:00-13:30	<b>Lunch</b>	
	<u>Not sure</u>	
6:00pm	<b>Dinner</b>	<b>Baidiyuan Restaurant</b>

**Friday, October 21, 2016**

	<u>Not sure</u>	
12:00-13:30	<b>Lunch</b>	
15:15 – 15:30	<b>Dr James Leduc</b> <b>Symposium on Emerging Viral Diseases</b>	<b>No. 1 meeting room</b>
17:00	<b>Dinner</b>	<b>Hujing Restaurant</b>

**Saturday, October 22, 2016**

7:30 - 9:30am	<b>Drive Drs Leduc and Franz from Hongshan hotel to Wuhan airport (domestic, depart 10:35am at Terminal 2)</b>	
---------------	--	--

---

**From:** davidrf Franz@gmail.com  
**Sent:** Friday, October 14, 2016 7:00 AM  
**To:** Husbands, Jo  
**Cc:** LeDuc, James W.; Rusek, Benjamin; Lowenthal, Micah; Guenther, Rita; Bowman, Katherine  
**Subject:** Re: Updates for your upcoming China trip

Thanks so much for all of this information Jo. A lot going on. We'll be alert to these issues as we visit with colleagues. Sorry to miss you today at the book release. I got home from several days in DC last night and decided I needed a day of rest before tomorrow's early morning departure for Beijing. Best, Dave

Sent from my iPhone

On Oct 13, 2016, at 5:49 PM, Husbands, Jo <JHusband@nas.edu> wrote:

You're very welcome. In a somewhat related note, we have been talking with the European academies network about building on the common ground between their report on GOF and the NSABB's work. First step would be a small US-European discussion early next year, but then the aim would be to make the conversation global. Given your earlier discussions with CAS, this might also be of interest (in addition, of course, to your NSABB hat).

Cheers,  
Jo

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

---

**From:** LeDuc, James W.  
**Sent:** Thursday, October 13, 2016 2:23 PM  
**To:** Husbands, Jo; David Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Cc:** Lowenthal, Micah; Guenther, Rita; Bowman, Katherine  
**Subject:** RE: Updates for your upcoming China trip

Thanks very much, Jo. This is very useful information. Thank you for sharing it.

Jim

James W. Le Duc, Ph.D.  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

**From:** Husbands, Jo [mailto:JHusband@nas.edu]  
**Sent:** Thursday, October 13, 2016 12:10 PM  
**To:** David Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; LeDuc, James W. <jwleduc@UTMB.EDU>; Rusek, Benjamin <BRusek@nas.edu>  
**Cc:** Lowenthal, Micah <mlowenth@nas.edu>; Guenther, Rita <RGuenther@nas.edu>; Bowman, Katherine <KBowman@nas.edu>  
**Subject:** Updates for your upcoming China trip

Hullo,

I wanted to send you some updates for your upcoming trip to China, so that you won't be surprised if some things come up, and in hopes that you might also learn things of mutual interest.

First, the Chinese Academy has named a new focal point for the IAP Biosecurity Working Group -- Prof. Chen Xinwen, Director General of CAS Wuhan Institute of Virology. We found this out in late August and as of now have not had any direct contact with him. I don't know if this will come up when you visit, but we wanted you to be aware of the new connection.

If it does, you might want to tell him that we have made a proposal to IAP for funds to undertake a strategic planning process for the group, which will be influenced by the outcome of the BWC review conference in November, where there is some chance a science advising mechanism will emerge. If successful, there would be a meeting in Geneva, probably in February, and we would want CAS to be represented.

In addition – and also of interest for CISAC, we hope – the EU is funding a series of regional workshops on S&T issues for the BWC, which will be held next year (the full EU grant to the BWC may be found at [http://www.unog.ch/80256EE600585943/\(httpPages\)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument](http://www.unog.ch/80256EE600585943/(httpPages)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument)). The goals of the workshops are

**Enhancing interaction with non-governmental stakeholders on science and technology**

through a series of regional workshops on scientific and technological issues and on biosafety and biosecurity. Moreover, the project will directly engage scientists and biosafety professionals in developing countries in order to raise awareness of the BWC, to develop capacities for more effective implementation of the BWC and to facilitate international cooperation for peaceful purposes.

The BWC staff have asked IAP to help identify participants and we see this is as a major opportunity, and something we hope will be of interest for the CAS.

One more thing. The Chinese government proposed in Geneva last December that the BWC should create a “template” for codes of conduct for scientists (attached). Pakistan has now become a co-sponsor and we heard that the Chinese Academy might now be engaged somehow. Given the CAS engagement in various international conversations about responsible science, which the CISAC group has helped promote, we thought this might also be of interest.

Hope this information is useful and look forward to hearing more when you return.

Cheers,  
Jo

---

**From:** Husbands, Jo <JHusband@nas.edu>  
**Sent:** Friday, October 14, 2016 7:44 AM  
**To:** davidrf Franz@gmail.com  
**Cc:** LeDuc, James W.; Rusek, Benjamin; Lowenthal, Micah; Guenther, Rita; Bowman, Katherine  
**Subject:** Re: Updates for your upcoming China trip

I'm sorry I won't see you today, but certainly understand. Look forward to hearing how things go.

At some point later in the year, maybe we could get together and bring Jim in by phone to talk about China, the regional workshops and GOF/genome editing. We have our own activities but we also seem to have some obvious common interests.

Cheers and good travels,  
Jo

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

---

**From:** davidrf Franz@gmail.com  
**Sent:** Friday, October 14, 2016 8:00 AM  
**To:** Husbands, Jo  
**Cc:** LeDuc, James W.; Rusek, Benjamin; Lowenthal, Micah; Guenther, Rita; Bowman, Katherine  
**Subject:** Re: Updates for your upcoming China trip

Thanks so much for all of this information Jo. A lot going on. We'll be alert to these issues as we visit with colleagues. Sorry to miss you today at the book release. I got home from several days in DC last night and decided I needed a day of rest before tomorrow's early morning departure for Beijing. Best, Dave

Sent from my iPhone

On Oct 13, 2016, at 5:49 PM, Husbands, Jo <JHusband@nas.edu> wrote:

You're very welcome. In a somewhat related note, we have been talking with the European academies network about building on the common ground between their report on GOF and the NSABB's work. First step would be a small US-European discussion early next year, but then the aim would be to make the conversation global. Given your earlier discussions with CAS, this might also be of interest (in addition, of course, to your NSABB hat).

Cheers,  
Jo

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

---

**From:** LeDuc, James W.  
**Sent:** Thursday, October 13, 2016 2:23 PM  
**To:** Husbands, Jo; David Franz (davidrf Franz@gmail.com); Rusek, Benjamin  
**Cc:** Lowenthal, Micah; Guenther, Rita; Bowman, Katherine

**Subject:** RE: Updates for your upcoming China trip

Thanks very much, Jo. This is very useful information. Thank you for sharing it.

Jim

James W. Le Duc, Ph.D.  
Director  
Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) bvc

**From:** Husbands, Jo [mailto:JHusband@nas.edu]

**Sent:** Thursday, October 13, 2016 12:10 PM

**To:** David Franz (davidrf Franz@gmail.com) <davidrf Franz@gmail.com>; LeDuc, James W. <jwleduc@UTMB.EDU>; Rusek, Benjamin <BRusek@nas.edu>

**Cc:** Lowenthal, Micah <mLowenthal@nas.edu>; Guenther, Rita <RGuenther@nas.edu>; Bowman, Katherine <KBowman@nas.edu>

**Subject:** Updates for your upcoming China trip

Hullo,

I wanted to send you some updates for your upcoming trip to China, so that you won't be surprised if some things come up, and in hopes that you might also learn things of mutual interest.

First, the Chinese Academy has named a new focal point for the IAP Biosecurity Working Group -- Prof. Chen Xinwen, Director General of CAS Wuhan Institute of Virology. We found this out in late August and as of now have not had any direct contact with him. I don't know if this will come up when you visit, but we wanted you to be aware of the new connection.

If it does, you might want to tell him that we have made a proposal to IAP for funds to undertake a strategic planning process for the group, which will be influenced by the outcome of the BWC review conference in November, where there is some chance a science advising mechanism will emerge. If successful, there would be a meeting in Geneva, probably in February, and we would want CAS to be represented.

In addition -- and also of interest for CISAC, we hope -- the EU is funding a series of regional workshops on S&T issues for the BWC, which will be held next year (the full EU grant to the BWC may be found at [http://www.unog.ch/80256EE600585943/\(httpPages\)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument](http://www.unog.ch/80256EE600585943/(httpPages)/7EA198C35415C020C1257F9B003E1BB1?OpenDocument)). The goals of the workshops are

**Enhancing interaction with non-governmental stakeholders on science and technology** through a series of regional workshops on scientific and technological issues and on biosafety and biosecurity. Moreover, the project will directly engage scientists and biosafety professionals in developing countries in order to raise awareness of the BWC, to develop capacities for more effective implementation of the BWC and to facilitate international cooperation for peaceful purposes.



The BWC staff have asked IAP to help identify participants and we see this is as a major opportunity, and something we hope will be of interest for the CAS.

One more thing. The Chinese government proposed in Geneva last December that the BWC should create a "template" for codes of conduct for scientists (attached). Pakistan has now become a co-sponsor and we heard that the Chinese Academy might now be engaged somehow. Given the CAS engagement in various international conversations about responsible science, which the CISAC group has helped promote, we thought this might also be of interest.

Hope this information is useful and look forward to hearing more when you return.

Cheers,  
Jo

---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Friday, October 14, 2016 6:35 PM  
**To:** '??'; LeDuc, James W.  
**Cc:** Mendoza, Imelda; David Franz  
**Subject:** RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben

I am afraid that I will not be joining Dr. Le Duc and Dr. Franz at the symposium. My visa did not come through in time. Thank you again for the invitation and I look forward to meeting you sometime in the future.

Kind regards,

Benjamin J. Rusek  
Senior Program Officer  
Policy and Global Affairs Division  
The U.S. National Academy of Sciences, Engineering and Medicine  
Phone: 001-202-334-3975  
Cell: (b)(6)  
Fax: 001-202-334-1730  
Skype: (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Sunday, September 18, 2016 9:00 AM  
**To:** LeDuc, James W.  
**Cc:** Mendoza, Imelda; David Franz; Rusek, Benjamin  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. LeDuc:

Please find the new invitation letter with the stamping of Wuhan Institute of Virology. In case Dr. Rusek will need this as well, I also get one for him

I remembered Dr. Franz had informed me that he had already submitted visa application to the consulate in DC. But if he needs one with stamping, please let me know.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 9 月 14 日 星期三

收件人: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
抄送: "David Franz" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>, "Rusek, Benjamin" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Good, thank you. This should be much easier than the CAS invitation.

---

**From:** Mendoza, Imelda  
**Sent:** Wednesday, September 14, 2016 9:24 AM  
**To:** 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>  
**Cc:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>; David Franz <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Subject:** RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for all of your help. I look forward to hearing from you next week.

Kind regards,

Imelda

**From:** 胡犇 [<mailto:huben@wh.iov.cn>]  
**Sent:** Wednesday, September 14, 2016 9:19 AM  
**To:** Mendoza, Imelda <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>  
**Cc:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>; David Franz <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>; Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)>  
**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases  
**Importance:** High

Dear Imelda:

Got it. I will go to the administrative office of the institute for stamping on Sunday when they come back to work. I would like to do it tomorrow but no one will be available due to the holiday.

Please understand.

Kind regards

Ben

-----原始邮件-----

发件人: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>

发送时间: 2016 年 9 月 14 日 星期三

收件人: "LeDuc, James W." <jwleduc@UTMB.EDU>, "胡犇" <huben@wh.iov.cn>

抄送: "David Franz" <davidrfranz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dr. Le Duc,

I just spoke with the Consulate and what they are requesting is the invitation with the **stamp of the Wuhan Institute of Virology**.

Thanks.

Imelda

---

**From:** LeDuc, James W.

**Sent:** Wednesday, September 14, 2016 8:56 AM

**To:** 胡犇 <huben@wh.iov.cn>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrfranz@gmail.com) <davidrfranz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>

**Subject:** RE: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for your prompt response. We will try to reach the Consulate for clarification, but it is very difficult to speak with anyone there. Perhaps you can start the process to obtain both, just in case.

Enjoy the Mid-Autumn Holiday!

Thank you again for all your help.

Jim

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Wednesday, September 14, 2016 8:48 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrfranz@gmail.com) <davidrfranz@gmail.com>; Rusek, Benjamin <BRusek@nas.edu>

**Subject:** Re: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

**Importance:** High

Dear Prof. Leduc:

Could you verify whether they need an invitation called "Duly Authorized Invitation Letter" from the Chinese Academy of Sciences, or an invitation with the stamp of the Wuhan Institute of Virology.

If it is the latter, I can send to you on Sunday because it is public holiday (the Mid-Autumn holiday) from Thursday to Saturday. If what they request is the "Duly Authorized Invitation Letter", it may take one more week because we need to apply for the international cooperation bureau of CAS.

Anyway I will make it as quickly as I can.

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016年9月14日 星期三

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "Rusek, Benjamin" <BRusek@nas.edu>

主题: RE: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I wanted to be sure that you saw that my request for a visa was rejected by the Chinese Consulate here in Houston because it lacked an official stamp from the Chinese Academy of Sciences. I wonder if you could resend the letter of invitation with the stamp quickly so that we can get this completed.

Thanks, Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Tuesday, September 13, 2016 6:00 PM

**To:** Rusek, Benjamin <BRusek@nas.edu>

**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>; Dave Franz (davidrfranz@gmail.com) <davidrfranz@gmail.com>;

LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** Re: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr. Rusek:

The 19th is the date for on-site registration. And the formal meeting will take place on 20th and 21st. So what is your plan? If you decide to register, please let me know.

Sincerely

Ben

-----原始邮件-----

发件人: "Rusek, Benjamin" <BRusek@nas.edu>

发送时间: 2016 年 9 月 14 日 星期三

收件人: '??' <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrfranz@gmail.com)" <davidrfranz@gmail.com>, "LeDuc, James W." <jwleduc@UTMB.EDU>

主题: RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

Yes I plan to travel with Dr. LeDuc and Dr. Franz. We are exploring the possibility of holding a NAS CAS meeting in Wuhun in 2017 and I am very interested in seeing the facilities at the Wuhan Institute of Virology. I only plan to attend the meeting on the 19<sup>th</sup> and possibility the morning of the 20<sup>th</sup>. Should I still register?

Kind regards,

Benjamin J. Rusek

Senior Program Officer

Policy and Global Affairs Division

The U.S. National Academy of Sciences (NAS)

Phone: 001-202-334-3975

Cell:

Fax: 001-202-334-1730

Skype:

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Monday, September 12, 2016 8:43 PM

**To:** LeDuc, James W.

**Cc:** Mendoza, Imelda; Dave Franz (davidrf Franz@gmail.com); Rusek, Benjamin

**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Yes we have reserved the accommodation for Dr. David Franz at the same hotel with you.

May I ask whether Dr. Ben Rusek will also attend the meeting? Coz I have not received registration information from him.

Thanks!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 9 月 13 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

Attached please find a copy of my brief biographical sketch. Please let me know if you need my full cv (27 pages).

I will be traveling from Beijing to Wuhan with Ben Rusek and Dave Franz of our US National Academy of Sciences and we will share our final flights with you as soon as we make reservations. In addition, I wonder if we could all be at the same hotel? It would make it easier for us logistically.

As I believe I indicated previously, I will pay for my hotel room.

We are just sending my passport to the Chinese Consulate in Houston for a visa and I will let you know as soon as I receive it.

I look forward to seeing you soon.

Jlm

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases



Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Friday, October 14, 2016 9:18 PM  
**To:** LeDuc, James W.  
**Cc:** BRusek@nas.edu;davidrf Franz@gmail.com  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Pick-up service will be provided at the airport and we will arrange a vehicle to transport you from the airport to Hong Shan hotel.

Prof. Bergeron arrives 20 mins later than you. Do you agree if you (also Dr. Rusek and Dr. Franz) share the same vehicle with him and his postdoc?

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016 年 9 月 30 日 星期五  
收件人: "胡犇" <huben@wh.iov.cn>  
抄送: "Mendoza, Imelda" <imendoza@UTMB.EDU>, "Benjamin Rusek (BRusek@nas.edu)" <BRusek@nas.edu>, "Dave Franz (davidrf Franz@gmail.com)" <davidrf Franz@gmail.com>  
主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I am pleased to inform you that I have received my visa for the upcoming trip to Wuhan and attached is my travel itinerary. As indicated previously, I will be traveling from Beijing to Wuhan with Dave Franz and Ben Rusek and we should all be arriving on the Air China flight (CA1341) arriving at 9:50 PM Tuesday evening, 18 October (Terminal 2). We would welcome your suggestions for transportation from the airport to the Hotel following our arrival.

I look forward to seeing you soon! And thank you for the program agenda. It looks like quite an interesting meeting with several excellent participants.

Best regards,

Jim

James W. Le Duc, Ph.D.

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) 636

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <huben@wh.iov.cn>

抄送: "Linfa Wang (linfa.wang@duke-nus.edu.sg)" <linfa.wang@duke-nus.edu.sg>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Friday, June 03, 2016 2:28 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** 石正丽 <zlishi@wh.iov.cn> (b)(6)  
**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!



Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

---

**From:** 胡犇 <huben@wh.iov.cn>  
**Sent:** Saturday, October 15, 2016 4:34 AM  
**To:** LeDuc, James W.  
**Subject:** Program of the 7th International Symposium on Emerging Viral Diseases and pick-up service  
**Attachments:** ISEVD Program 01.jpg; ISEVD Program 02.jpg

Dear speakers / attendees:

The 7th International Symposium on Emerging Viral Diseases will be held next week in Wuhan.

Please find the finalized conference program.

When you arrive at Wuhan airport or the train station, our student volunteers/staff or hired driver will hold your name at the exit and guide you to the vehicle to send you to Hong Shan Hotel (洪山宾馆 in Chinese, in case we fail to get you in the airport or train station and you have to take a taxi).

We have already reserved your room at Hong Shan Hotel and please note that the registration of the conference starts at 9:00 a.m. on 19th and lasts until late night at the hotel lobby.

See you next week!

Best wishes

Ben Hu      Ph.D

Research Assistant

Wuhan Institute of Virology, CAS

Secretary of the 7th ISEVD



# ISEVD

## The 7th International Symposium on Emerging Viral Diseases

October 19-21, 2016  
Wuhan, China  
武汉, 中国

### PROGRAM OF THE 7th INTERNATIONAL SYMPOSIUM ON EMERGING VIRAL DISEASES Day 1

Date/日期	Time/时间	Content/内容
Wednesday 星期三 Oct. 19, 2016 10月19日	Venue 地点 09:00-21:00	Registration/报到注册 Ground Floor, Hongshan Hotel (Hubei Road) Ground Floor, Shuanglu Hotel (Minghai Road)   明海酒店一楼大堂
Day 1, Morning Session /第一天上午		
Thursday 星期四 Oct. 20, 2016 10月20日	Venue 地点	Conference Hall of the Wuhan Institute of Virology, CAS (2nd floor of the Institute Building) 中国科学院武汉病毒研究所学术报告厅 (研究所大楼二楼)
	08:30-08:40	Opening Address/开幕式致辞
	08:40-09:30	Keynote Speeches Session Chair: Zheng-Li Shi
	09:05-09:05	Title: Peaceful co-existence of viruses and hosts: an outcome of evolutionary adaptation to fight?
	Keynote Speech 01	Speaker: Linfa Wang Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore
	09:05-09:30	Title: Mechanism underlying the high cytokine response induced by H5N1 influenza virus in mammals
	Keynote Speech 02	Speaker: Wendy Barclay Section of Virology, Faculty of Medicine, Imperial College London, UK
	09:30-10:00	Coffee Break and Poster Presentation/茶歇和海报
	10:00-12:10	Session 1: Epidemiology and Pathogen Discovery Session Chair: Linfa WANG
	10:00-10:25 S-03	Title: Pandemic Influenza Viruses: Biology and Transmission Speaker: Karla Subbarao Laboratory of Infectious Diseases, NIAID, National Institutes of Health, Bethesda, MD, USA
	10:25-10:45 S-04	Title: The Market as an Influenza Risk Factor: The Avian Human Interface Speaker: Yuelong Shi Chinese Center for Disease Control and Prevention (China CDC), Beijing, China
	10:45-11:05 S-05	Title: Understanding uncultivable bat influenza viruses Speaker: Wansun Ma Department of Diagnostic Medicine/Pathology, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas, USA
	11:05-11:25 S-06	Title: Spread and persistence of dengue virus Speaker: Hervé Bourhy Institut Pasteur - Unit of Virology Dynamics and Host Adaptation, 25 rue du Docteur Roux, 75734 Paris Cedex 15, France
	11:25-11:40 S-07	Title: Newly emerging geminiviruses and their interaction Speaker: Daohong Jiang State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural University, Wuhan, China
	11:40-11:55 S-08	Title: Evidence of Group A rotavirus infection in bats, China Speaker: Biao He Military Veterinary Institute, Academy of Military Medical Sciences, Changchun, China
	11:55-12:10 S-09	Title: Fatal Pneumonia in Children Caused by Human Adenovirus Type 7 Associated with Higher Severity of Illness and Fatality Rate Speaker: Qiwei Zhang School of Public Health, Southern Medical University, Guangzhou, China
	12:10-13:40	Lunch and Poster/午餐和海报
Day 1, Afternoon Session /第一天下午		
Thursday 星期四 Oct. 20, 2016 10月20日	13:40-14:40	Session 2: Countermeasure and Prevention Session Chair: Christopher Broder, Lijun Rong
	13:40-14:05 S-10	Title: Peptide fusion inhibitors for prevention and treatment of MERS-CoV infection Speaker: Shibo Jiang Basic Medical College and Institute of Medical Microbiology, Fudan University, Shanghai, China
	14:05-14:30 S-11	Title: Human neutralizing antibodies for influenza virus Speaker: James Crowe Department of Pathology, Microbiology, and Immunology, Vanderbilt University, Nashville, TN, USA
	14:30-14:55 S-12	Title: Novel Influenza Virus Passive and Active Vaccines Speaker: Christopher Broder Department of Microbiology, Uniformed Services University, Bethesda, USA
	14:55-15:20 S-13	Title: GPOR antagonism and viral entry Speaker: Lijun Rong Department of Microbiology and Immunology, College of Medicine, University of Illinois at Chicago, Chicago, Illinois, USA
	15:20-15:40 S-14	Title: Assembly and Beyond: A Structural View of Bunyavirus Nucleocapsid Protein Speaker: Zhi-Yong Lei School of Medicine, Tsinghua University, Beijing, China
	15:40-16:00	Coffee Break and Poster Presentation/茶歇和海报
	16:00-16:20 S-15	Title: Human monoclonal antibodies against emerging viruses Speaker: Dmitri Dimitrov Center for Cancer Research, National Cancer Institute, NIH, Frederick, USA
	16:20-16:40 S-16	Title: Inhibition of Replication and Pathogenesis of Coronavirus by Targeting Viral 2'-O-Methyltransferase Speaker: Dayin Guo State Key Laboratory of Virology, College of Life Sciences & School of Medicine, Wuhan University, Wuhan, China
	16:40-17:00 S-17	Title: Subunit vaccines against MERS-CoV Speaker: Lanying Du Lantao F. Kimmel Research Institute, New York Blood Center, New York, USA
	17:00-17:20 S-18	Title: Rapid generation of human-like anti-viral antibodies for urgent treatment of emerging and virulent viral infectious disease Speaker: Ling Chen Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, China
	17:20-17:40 S-19	Title: A comparative study of the autophagy pathway during virus infection of bat (natural) and human (accidental) host cells Speaker: Eric Lefebvre Department of Microbiology, Uniformed Services University, Bethesda, MD, USA
	17:40-18:00 S-20	Title: International consortium for preparedness of Nations to EVD Speaker: Jean-Louis Romette Aix-Marseille University, France
	18:00-20:00	Banquet 宴会/晚餐

ISEVD The 7th International Symposium  
on Emerging Viral Diseases

<http://www.isevd.org>





# ISEVD

## The 7th International Symposium on Emerging Viral Diseases

October 19-21, 2016  
Wuhan, China  
中国武汉

### PROGRAM OF THE 7th INTERNATIONAL SYMPOSIUM ON EMERGING VIRAL DISEASES Day 2

Date日期	Time时间	Content内容
Day 2, Morning Session / 第二天上午		
Friday 星期五 Oct. 21, 2016 10月21日	08:30-09:50	Session 3: Zika Virus Session Chair: Bo ZHANG
	08:30-08:50 S-21	Title: Zika in Singapore Speaker: Leo Yee Sin Institute of Infectious Diseases & Epidemiology/Communicable Disease Centre, Tan Tock Seng Hospital, 11 Jalan Tan Tock Seng, Singapore
	08:50-09:10 S-22	Title: Zikavirus NS2B-NS3 protease: Crystal structure and inhibitors Speaker: Rolf Hilgenfeld University of Ulm, Institute of Biochemistry, Germany
	09:10-09:30 S-23	Title: Structure of Zika virus NS1: association with virus infection and immune system Speaker: Shi Yi Institute of Microbiology, Chinese Academy of Sciences
	09:30-09:50 S-24	Title: The animal model of Zika virus infection: the knowns and unknowns Speaker: Cheng-Feng Qin Department of Virology, Beijing Institute of Microbiology and Epidemiology, Beijing, China
	09:50-12:10	Session 4: Emerging Coronaviruses Session Chair: Zheng-Li Shi
	09:50-10:15 S-25	Title: Antibody and T cell responses in patients with MERS and development of a murine model for lethal MERS-CoV infection Speaker: Stanley Perlman University of Texas, Texas City, TX, USA
	10:15-10:35 S-26	Title: MERS-CoV NS4b accessory protein is a phosphodiesterase that antagonizes host response Speaker: Susan Weiss Department of Microbiology and Biology, University of Pennsylvania, Philadelphia, PA, USA
	10:35-10:50	Coffee Break and Poster Presentations / 茶歇和海报
	10:50-11:15 S-27	Title: Investigating emerging coronavirus susceptibility using the Collaborative Cross Speaker: Lisa Gralinski Department of Epidemiology, University of North Carolina, Chapel Hill, USA
	11:15-11:35 S-28	Title: Airway Memory CD4+ T Cells Mediate Protective Immunity against Emerging Respiratory Coronaviruses Speaker: Jincun Zhao Guangzhou Institute of Respiratory Disease, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China
	11:35-11:50 S-29	Title: Detection and Prevalence Patterns of Group D Betacoronaviruses in Lynx's flying fox (Pteropus lyli) in Thailand Speaker: Supaporn Wacharapukadee Chulalongkorn Hospital, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
	11:50-12:10 S-30	Title: Reverse genetics of bat SARS-like coronaviruses and its application in pathogenesis research Speaker: Liang Zeng Key Laboratory of Special Pathogens, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China
	12:10-13:40	Lunch / 午餐
Friday 星期五 Oct. 21, 2016 10月21日	13:40-17:30	Session 5: Virus and Host Interaction Session Chair: Peng GONG, Yuntao WU
	13:40-14:05 S-31	Title: Innate immunity to Crimean-Congo Hemorrhagic and subversion of the antiviral responses Speaker: Eric Benjannet Viral Special Pathogens Branch, Centers for Disease Control and Prevention, Atlanta, USA
	14:05-14:30 S-32	Title: Identification of the mechanisms of entry of three different hemorrhagic fever viruses Speaker: Gregory Naveu ICRI - International Center for Infectology Research, Lyon, France
	14:30-14:50 S-33	Title: A European Non-Human Primate Model of Ebola Disease: Infection of Macaques and Analysis of Virus Populations Speaker: Hervé Raoul INSERM, Laboratoire P4-Jean Mérieux, Lyon, France
	14:50-15:15 S-34	Title: Structural basis of viral RNA-dependent RNA polymerase catalysis and translocation Speaker: Peng Gong Key Laboratory of Special Pathogens and Biosafety, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan, China
	15:15-15:30 S-35	Title: Dual Use Research of Concern and the Debate about Gain-of-Function Studies Speaker: James Lee Dos Gallatin National Laboratory, University of Texas Medical Branch, USA
	15:30-15:50	Coffee Break / 茶歇
	15:50-16:10 S-36	Title: The Role of PU.1 in HIV Disease Speaker: Xiao-Ping Dong State Key Laboratory for Infectious Disease Prevention and Control, National Institute for Viral Disease Control and Prevention, China CDC
	16:10-16:30 S-37	Title: Endothelial cell apoptosis is a determinant of H5N1 pathogenesis in mammalian species Speaker: Babaj Maticaseamy Department of Microbiology, The University of Chicago, Chicago, IL, USA
	16:30-16:50 S-38	Title: Coflin is a clinical marker of HIV-mediated CD4 T cell dysfunction Speaker: Yuntao Wu National Center for HIV/AIDS Epidemiology and Infection Research, School of System Biology, George Mason University, Manassas, VA 20110, USA
	16:50-17:10 S-39	Title: Proteomic profiling of HIV infected human primary CD4 T cells identifies novel restriction factors for HIV Speaker: Xu Tan School of Pharmaceutical Sciences, Tsinghua University, Beijing, China
	17:10-17:30 S-40	Title: HDX-Rescue Assays DENV to End the Endoplasmic Reticulum Speaker: Feigang Wang Department of microbiology and parasitology, School of basic medical sciences, Capital Medical University
	17:30-17:50 S-41	Title: Disruption of Lysosomal P and M proteins on Jak/Stat and NF- $\kappa$ B pathways regulation Speaker: Florian Senthonax Institut Pasteur - Unit of Lysosome Dynamics and Host Adaptation, Paris, France
	17:50-18:00	Closing Remarks
	18:00-18:00	Dinner / 晚餐

ISEVD The 7th International Symposium  
on Emerging Viral Diseases

<http://www.isevd2016.org/programme.htm>



---

**From:** Rusek, Benjamin <BRusek@nas.edu>  
**Sent:** Saturday, October 15, 2016 9:08 AM  
**To:** '??'; LeDuc, James W.  
**Cc:** davidrf Franz@gmail.com  
**Subject:** RE: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Greetings Ben,

I am afraid that I will not be joining Dr. Le Duc and Dr. Franz at the symposium. My visa did not come through in time. Thank you again for the invitation and I look forward to meeting you sometime in the future.

Kind regards,

Benjamin J. Rusek  
Senior Program Officer  
Policy and Global Affairs Division  
The U.S. National Academy of Sciences, Engineering and Medicine  
Phone: 001-202-334-3975  
Cell: (b)(6)  
Fax: 001-202-334-1730  
Skype: (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]  
**Sent:** Friday, October 14, 2016 10:18 PM  
**To:** LeDuc, James W.  
**Cc:** Rusek, Benjamin; davidrf Franz@gmail.com  
**Subject:** Re: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

Pick-up service will be provided at the airport and we will arrange a vehicle to transport you from the airport to Hong Shan hotel.

Prof. Bergeron arrives 20 mins later than you. Do you agree if you (also Dr. Rusek and Dr. Franz) share the same vehicle with him and his postdoc?

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <jwleduc@UTMB.EDU>  
发送时间: 2016年9月30日 星期五



收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Benjamin Rusek (BRusek@nas.edu)" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>, "Dave Franz ([davidrfranz@gmail.com](mailto:davidrfranz@gmail.com))" <[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I am pleased to inform you that I have received my visa for the upcoming trip to Wuhan and attached is my travel itinerary. As indicated previously, I will be traveling from Beijing to Wuhan with Dave Franz and Ben Rusek and we should all be arriving on the Air China flight (CA1341) arriving at 9:50 PM Tuesday evening, 18 October (Terminal 2). We would welcome your suggestions for transportation from the airport to the Hotel following our arrival.

I look forward to seeing you soon! And thank you for the program agenda. It looks like quite an interesting meeting with several excellent participants.

Best regards,

Jim

James W. Le Duc, Ph.D.

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Cc:** 石正丽 <[zlishi@wh.iov.cn](mailto:zlishi@wh.iov.cn)> (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and



immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu     Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311



---

**From:** LeDuc, James W.  
**Sent:** Saturday, October 15, 2016 9:54 AM  
**To:** 胡犇  
**Cc:** BRusek@nas.edu;davidrf Franz@gmail.com;Xia Han  
**Subject:** Re: Invitation of the 7th International Symposium on Emerging Viral Diseases

Thank you Ben for arranging our pick up from the airport. We are happy to share the ride with Professor Bergeron.

I think that BenRusek has already notified you that he will not be joining us due to. USA problems.

I look forward to seeing you soon.

Jim

Sent from my iPhone

On Oct 14, 2016, at 9:21 PM, 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)> wrote:

Dear Prof. Leduc:

Pick-up service will be provided at the airport and we will arrange a vehicle to transport you from the airport to Hong Shan hotel.

Prof. Bergeron arrives 20 mins later than you. Do you agree if you (also Dr. Rusek and Dr. Franz) share the same vehicle with him and his postdoc?

Best regards

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 9 月 30 日 星期五

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Mendoza, Imelda" <[imendoza@UTMB.EDU](mailto:imendoza@UTMB.EDU)>, "Benjamin Rusek (BRusek@nas.edu)" <[BRusek@nas.edu](mailto:BRusek@nas.edu)>, "Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))" <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>

主题: RE: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Ben,

I am pleased to inform you that I have received my visa for the upcoming trip to Wuhan and attached is my travel itinerary. As indicated previously, I will be traveling from Beijing to Wuhan with Dave Franz and Ben Rusek and we should all be arriving on the Air China flight (CA1341) arriving at 9:50 PM Tuesday evening, 18 October (Terminal 2). We would welcome your suggestions for transportation from the airport to the Hotel following our arrival.

I look forward to seeing you soon! And thank you for the program agenda. It looks like quite an interesting meeting with several excellent participants.

Best regards,

Jim

James W. Le Duc, Ph.D.

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) b6/b7C

**From:** 胡犇 [mailto:[huben@wh.iov.cn](mailto:huben@wh.iov.cn)]

**Sent:** Monday, September 12, 2016 2:49 AM

**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

**Subject:** Re: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The meeting in October is approaching and we are now editing the conference proceedings. Could you please send me a copy of your CV (WORD format) ?

Please let me know the date of your arrival and departure. I will book a room for you at Hong Shan Hotel (the hotel for invited speakers, not the one indicated on the meeting website). Once you have booked your air tickets, please provide me with the flight information.

Besides, may I know the status of your visa? If it is ready, please update me.

Thanks a lot!

Sincerely

Ben

-----原始邮件-----

发件人: "LeDuc, James W." <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>

发送时间: 2016 年 8 月 2 日 星期二

收件人: "胡犇" <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)>

抄送: "Linfa Wang ([linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg))" <[linfa.wang@duke-nus.edu.sg](mailto:linfa.wang@duke-nus.edu.sg)>

主题: RE: Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Dr Ben Hu,

As I prepare for the upcoming International Symposium on Emerging Viral Diseases, I am wondering if it might be appropriate for me to offer a talk on the recently completed report by the US National Science Advisory Board on Biosecurity (NSABB) of which I am a member. The report deals with gain of function research of concern and while focused on research done in or supported by the US, it nonetheless addresses a challenging topic common to investigators around the world. Please let me know if this would be a subject of interest to the organizing committee.

I look forward to seeing you in Wuhan in October.

With best regards,

Jim

James W. Le Duc

Director

Galveston National Laboratory

University of Texas Medical Branch

Galveston, TX 77555-0610

(t) 409-266-6500

(f) 409-266-6810

(m) (b)(6)

**From:** 胡犇 [mailto:huben@wh.iov.cn]

**Sent:** Friday, June 03, 2016 2:28 AM

**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Cc:** 石正丽 <zlishi@wh.iov.cn>; (b)(6)

**Subject:** Invitation of the 7th International Symposium on Emerging Viral Diseases

Dear Prof. Leduc:

The 7th International Symposium on Emerging Viral Diseases will be held in October 19-21, 2016, in Wuhan, China. The biennial symposium, which covers various topics of emerging viruses including epidemiology, evolution, molecular biology, pathogenesis and immunology, has become an important event for leading Chinese and international virologists to discuss cutting-edge science as well as to foster global collaborations.

You are highly reputable in emerging virus research and we sincerely hope that you can attend the symposium. Please find the invitation letter by the chairmen of the symposium, Dr. Zhengli Shi from Wuhan Institute of Virology, Chinese Academy of Sciences, and Dr. Linfa Wang from the Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore.

If you have any question regarding the conference, please contact me.

Thank you!

Best regards

Ben Hu      Ph.D

Secretary of the 7th International Symposium on Emerging Viral Diseases

Wuhan Institute of Virology

Chinese Academy of Sciences

Wuhan 430071, P.R. China

Tel: 86-27-87197311

|





中国科学院武汉病毒研究所  
WUHAN INSTITUTE OF VIROLOGY, CAS

**James Leduc, PhD**

Director, Galveston National Laboratory,  
University of Texas Medical Branch, Galveston, United States

**David Franz, DVM, PhD**

National Academy of Sciences, Washington DC, United States

**DRAFT**

**Tuesday, October 18, 2016**

9:50-11:30pm	<b>Pick up Drs Leduc, Franz, Rusek from Wuhan airport and send to Hongshan Hotel</b>	<b>Hongshan Hotel</b>
--------------	--	-----------------------

**Wednesday, October 19, 2016**

9:30 - 11:30am	<b>Meeting with:</b> Dr Zhiming Yuan Director, The Wuhan Branch of Chinese Academy of Sciences Professor, Arbovirus and vector control Dr Zhengli Shi Professor, Emerging viruses Dr Bo Zhang Professor, Flavivirus Infection & Prevention Dr Quanjiao Chen Associate professor, Molecular Biology of the Influenza Virus Dr Xiaomin Hu Associate professor, Arbovirus and vector control Dr Han Xia Associate professor, Arbovirus and vector control Yinhua Yi Postdoc candidate	<b>No.5 meeting room</b>
12:00 – 1:30pm	<b>Lunch</b>	<b>Chagang Restaurant</b>
2:00 - 4:00pm	<b>Wuhan National Biosafety Laboratory Tour</b>	
6:00pm	<b>Dinner</b>	<b>Xiaonanjing restaurant</b>



**Thursday, October 20, 2016**

8:30-10:00am	<b>Symposium on Emerging Viral Diseases</b> <b>Opening address and Group Photo of Symposium Participants</b>	<b>No.5 meeting room</b>
12:00-13:30	<b>Lunch</b>	
	<u>Not sure</u>	
6:00pm	<b>Dinner</b>	<b>Baidiyuan Restaurant</b>

**Friday, October 21, 2016**

	<u>Not sure</u>	
12:00-13:30	<b>Lunch</b>	
15:15 – 15:30	<b>Dr James Leduc</b> <b>Symposium on Emerging Viral Diseases</b>	<b>No. 1 meeting room</b>
17:00	<b>Dinner</b>	<b>Hujing Restaurant</b>

**Saturday, October 22, 2016**

7:30 - 9:30am	<b>Drive Drs Leduc and Franz from Hongshan hotel to Wuhan airport (domestic, depart 10:35am at Terminal 2)</b>	
---------------	--	--

---

**From:** LeDuc, James W.  
**Sent:** Sunday, October 16, 2016 8:39 AM  
**To:** 胡犇  
**Subject:** Re: visit to BSL-4 lab in the afternoon of 19th October

Yes please. Thanks. Jim

Sent from my iPhone

On Oct 16, 2016, at 4:19 PM, 胡犇 <[huben@wh.iov.cn](mailto:huben@wh.iov.cn)> wrote:

Dear attendees of the 7th ISEVD:

We will organize a short visit to the BSL-4 laboratory of Wuhan Institute Virology, the only BSL-4 lab in China (40min drive from the city) in the afternoon of 19th, October. The vehicle will be organized to carry our attendees from Hong Shan Hotel to the BSL-4 lab and send back after the visit. It will depart from the hotel at 2:00 p.m.

Since you arrive on 18th or early on 19th, and you can do the registration quickly in the morning, would you be interested in this visit i?

If you would like to join in, please reply to me.

Best regards

Ben

Wuhan Institute of Virology, CAS



中国科学院武汉病毒研究所  
WUHAN INSTITUTE OF VIROLOGY, CAS

**James Leduc, PhD**

Director, Galveston National Laboratory,  
University of Texas Medical Branch, Galveston, United States

**David Franz, DVM, PhD**

National Academy of Sciences, Washington DC, United States

**DRAFT**

**Tuesday, October 18, 2016**

9:50-11:30pm	<b>Pick up Drs Leduc, Franz, Rusek from Wuhan airport and send to Hongshan Hotel</b>	<b>Hongshan Hotel</b>
--------------	--	-----------------------

**Wednesday, October 19, 2016**

9:30 - 11:30am	<b>Meeting with:</b> Dr Zhiming Yuan Director, The Wuhan Branch of Chinese Academy of Sciences Professor, Arbovirus and vector control Dr Zhengli Shi Professor, Emerging viruses Dr Bo Zhang Professor, Flavivirus Infection & Prevention Dr Quanjiao Chen Associate professor, Molecular Biology of the Influenza Virus Dr Xiaomin Hu Associate professor, Arbovirus and vector control Dr Han Xia Associate professor, Arbovirus and vector control Yinhua Yi Postdoc candidate	<b>No.5 meeting room</b>
12:00 – 1:30pm	<b>Lunch</b>	<b>Chagang Restaurant</b>
2:00 - 4:00pm	<b>Wuhan National Biosafety Laboratory Tour</b>	
6:00pm	<b>Dinner</b>	<b>Xiaonanjiang restaurant</b>



**Thursday, October 20, 2016**

8:30-10:00am	<b>Symposium on Emerging Viral Diseases</b> <b>Opening address and Group Photo of Symposium Participants</b>	<b>No.5 meeting room</b>
12:00-13:30	<b>Lunch</b>	
	<u>Not sure</u>	
6:00pm	<b>Dinner</b>	<b>Baidiyuan Restaurant</b>

**Friday, October 21, 2016**

	<u>Not sure</u>	
12:00-13:30	<b>Lunch</b>	
15:15 – 15:30	<b>Dr James Leduc</b> <b>Symposium on Emerging Viral Diseases</b>	<b>No. 1 meeting room</b>
17:00	<b>Dinner</b>	<b>Hujing Restaurant</b>

**Saturday, October 22, 2016**

7:30 - 9:30am	<b>Drive Drs Leduc and Franz from Hongshan hotel to Wuhan airport (domestic, depart 10:35am at Terminal 2)</b>	
---------------	--	--

---

**From:** LeDuc, James W.  
**Sent:** Monday, October 17, 2016 3:17 AM  
**To:** Han Xia  
**Subject:** Re: draft agenda and pick up

George Fu Gao, Director General of Chinese CDC and Vice President of Beijing Institute of Life Sciences, CAS.

Thanks. Jim

Sent from my iPhone

On Oct 17, 2016, at 4:06 PM, Han Xia <(b)(6)> wrote:

Hi Dr. Leduc,

Yes, you will also meet with Dr. Yuan in the morning, and have dinner with him at Oct. 19. Do you know Dr. GAO's full name? I am not sure who is Dr. Gao.

I will show up at the airport tomorrow, and then we can talk about the details of the agenda.

Have a safe travel and see you tomorrow!

Han

On Monday, October 17, 2016 3:58 PM, "LeDuc, James W." <jwleduc@UTMB.EDU> wrote:

Thanks very much Han. I couldn't open the attachment but from the text it sounds like you have most of the issues addressed. We would like to have some time to meet with Dr Yuan and perhaps Dr GAO if he's available to discuss the follow up meeting that was tentatively agreed upon last September following the meeting in Beijing. We hope to schedule that meeting in the spring of 2017 in Wuhan if possible.

I look forward to seeing you soon.

Thanks again, Jim  
Sent from my iPhone

On Oct 16, 2016, at 8:54 AM, Han Xia <(b)(6)> wrote:

Sorry, forget the attachment!

Han

On Sunday, October 16, 2016 8:53 AM, Han Xia <(b)(6)> wrote:

Hello Dr. Leudc,

Here is a draft agenda.

1. The major activities will be at Oct 19, in the morning you will meet Dr. Yuan, the potential collaborators, and the posdoc candidate. In the afternoon, there will be a BSL-4 tour (with the other international scientists ). The opening address and Group Photo of Symposium Participants will in the morning of Oct.20 and your report is scheduled in the afternoon of Oct 21.

But I am not sure about your time for the afternoon of Oct 20 and morning for the Oct 21. Do you have any plans or suggestions?

2. I have talked about Ben with the pick up. I think it will be much better for me and my husband drive you. Since my husband's flight will arrive at 9:00pm (Oct 18) at Wuhan airport, he will wait at Terminal 2 until you and Eric come out, then drive you to the Hongshan Hotel.

Thanks,

Han

<draft\_Dr. Leduc Agenda October 18-22, 2016.doc>

---

**Full Name:** Shi, Zhengli  
**Last Name:** Shi  
**First Name:** Zhengli  
**Job Title:** Professor, Emerging Viruses  
**Company:** Wuhan Institute of Virology, CAS

**Business Address:** Wuhan Institute of Virology, Chinese Academy of Sciences  
44 Xiao Hong Shan  
Wuhan, Hubei 430071  
China

**Business:** (0086) 27 87197240

**E-mail:** zlshi@wh.iov.cn  
**E-mail Display As:** zlshi

Friday, October 28, 2016 9:40 AM:

Lady in charge of emerging viruses at CAS in Wuhan. Led tour of new BSL4 facility during Oct 2016 meeting. Works on coronaviruses. ~50 yrs old in 2016 according to her.

.....



---

**From:** LeDuc, James W.  
**Sent:** Monday, October 31, 2016 9:47 AM  
**To:** Bente, Dennis A.;Freiberg, Alexander N.;Ksiazek, Thomas G.;Geisbert, Thomas W.;Bukreyev, Alexander;Mire, Chad;Paessler, Slobodan  
**Cc:** Tseng, Chien-Te K.;Shi, Pei yong  
**Subject:** FW: Visiting Scholar from Wuhan institute of Virology, CAS  
**Attachments:** CV.pdf

Please see note below and attached cv from a Chinese scientists seeking to work with us and undergo training at BSL3 and BSL4 for about one year starting in September, 2017. Kent Tseng has agreed to work with her at BSL3 and he has an appropriate project that will occupy much of her time; however, she is coming from the Wuhan Institute of Virology and specifically their new BSL4 laboratory (same program as Han Xia) and she is eager to obtain BSL4 training while here. Please review her attached cv and let me know if you would be willing to mentor her through BSL4 training and have a project that would benefit both you and her.

Thanks, Jim

**From:** 黄弋 [mailto:hy@wh.iov.cn]  
**Sent:** Monday, October 31, 2016 8:06 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Yuan Zhiming <yzm@wh.iov.cn>  
**Subject:** Visiting Scholar from Wuhan institute of Virology, CAS

Dear Pro. James W. Le Duc:

This is an E-mail from Huangyi, Wuhan institute of Virology, CAS. It's great to have an opportunity to introduce myself to you in Wuhan.

Attached please find my CV with details of my education, research interests and research experience. (b)(6)

(b)(6)

I hope to carry out some research works on mechanisms of "immune paralysis" (or inhibition of innate immune responses) caused by filoviruses and arenaviruses and on development of the therapeutics targeting viral interferon-antagonist functions. Of course, I must gain access to Galveston National Laboratory P4 Lab before that.

During my application of visiting scholar fellowship, I contacted with Pro. Chien-Te (Kent) Tseng. He is a nice person. I might not be able to get this fellowship without his help. And Pro. Chien-Te (Kent) Tseng agree me to get BSL-4 training while I am at UTMB. I will try my best to obtain the BSL-4 certificate as soon as possible based on my training experience in Lyon P4 lab, maybe half a year, if possible. Then I want to do some research works in the rest of time and I also hope to take this opportunity to undertake more cooperation between us. I

had not told Pro. Chien-Te (Kent) Tseng that I have got the fellowship until now because of some necessary procedures I am dealing with, but I will contact with him to talk about the research plan with him soon and tell you the details.

I welcome any questions and suggestions, and I look forward to your response. Thank you very much!

Sincerely yours,

--

Yi Huang, Ph.D,  
Associate scientist  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
Wuhan 430071,  
P. R. China

## Visiting Scholar Applicant

Yi HUANG  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
430071, Wuhan, China  
Email: [hy@wh.iov.cn](mailto:hy@wh.iov.cn)  
Tel: [+86] (27)-51319680

### **PERSONAL INFORMATION**

---

First Name: Yi

Last Name: HUANG

Gender: Female

Birth Date: [REDACTED]

Marital Status: (b)(6)

(b)(6)



Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

---

**From:** LeDuc, James W.  
**Sent:** Monday, October 31, 2016 9:47 AM  
**To:** Bente, Dennis A.;Freiberg, Alexander N.;Ksiazek, Thomas G.;Geisbert, Thomas W.;Bukreyev, Alexander;Mire, Chad;Paessler, Slobodan  
**Cc:** Tseng, Chien-Te K.;Shi, Pei yong  
**Subject:** FW: Visiting Scholar from Wuhan institute of Virology, CAS  
**Attachments:** CV.pdf

Please see note below and attached cv from a Chinese scientists seeking to work with us and undergo training at BSL3 and BSL4 for about one year starting in September, 2017. Kent Tseng has agreed to work with her at BSL3 and he has an appropriate project that will occupy much of her time; however, she is coming from the Wuhan Institute of Virology and specifically their new BSL4 laboratory (same program as Han Xia) and she is eager to obtain BSL4 training while here. Please review her attached cv and let me know if you would be willing to mentor her through BSL4 training and have a project that would benefit both you and her.

Thanks, Jim

**From:** 黄弋 [mailto:hy@wh.iov.cn]  
**Sent:** Monday, October 31, 2016 8:06 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>  
**Cc:** Yuan Zhiming <yzm@wh.iov.cn>  
**Subject:** Visiting Scholar from Wuhan institute of Virology, CAS

Dear Pro. James W. Le Duc:

This is an E-mail from Huangyi, Wuhan institute of Virology, CAS. It's great to have an opportunity to introduce myself to you in Wuhan.

Attached please find my CV with details of my education, research interests and research experience. (b)(6)

(b)(6)

I hope to carry out some research works on mechanisms of "immune paralysis" (or inhibition of innate immune responses) caused by filoviruses and arenaviruses and on development of the therapeutics targeting viral interferon-antagonist functions. Of course, I must gain access to Galveston National Laboratory P4 Lab before that.

During my application of visiting scholar fellowship, I contacted with Pro. Chien-Te (Kent) Tseng. He is a nice person. I might not be able to get this fellowship without his help. And Pro. Chien-Te (Kent) Tseng agree me to get BSL-4 training while I am at UTMB. I will try my best to obtain the BSL-4 certificate as soon as possible based on my training experience in Lyon P4 lab, maybe half a year, if possible. Then I want to do some research works in the rest of time and I also hope to take this opportunity to undertake more cooperation between us. I

had not told Pro. Chien-Te (Kent) Tseng that I have got the fellowship until now because of some necessary procedures I am dealing with, but I will contact with him to talk about the research plan with him soon and tell you the details.

I welcome any questions and suggestions, and I look forward to your response. Thank you very much!

Sincerely yours,

--

Yi Huang, Ph.D,  
Associate scientist  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
Wuhan 430071,  
P. R. China



## Visiting Scholar Applicant

Yi HUANG  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
430071, Wuhan, China  
Email: [hy@wh.iov.cn](mailto:hy@wh.iov.cn)  
Tel: [+86] (27)-51319680

### PERSONAL INFORMATION

---

First Name: Yi

Last Name: HUANG

Gender: Female

Birth Date: [REDACTED]

Marital Status: (b)(6)

(b)(6)



Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

---

**From:** Mendoza, Imelda [/O=UTMB/OU=EMAIL/CN=RECIPIENTS/CN=IMENDOZA]  
**Sent:** 10/31/2016 4:37:28 PM  
**To:** LeDuc, James W. [jwleduc@UTMB.EDU]; Tseng, Chien-Te K. [sktseng@UTMB.EDU]  
**Subject:** M/W Tseng (App for visiting scholar)  
**Location:** 6.200C, GNL  
**Start:** 11/1/2016 9:30:00 AM  
**End:** 11/1/2016 10:00:00 AM  
**Show Time As:** Busy

**Required Attendees:** Tseng, Chien-Te K.

**From:** Tseng, Chien-Te K.  
**Sent:** Monday, October 31, 2016 4:19 PM  
**To:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** RE: RE: RE: Application for Visiting Scholar (Self-funded)

Tomorrow morning between 9:00 – 10:00 works for me and thanks!

Kent

**From:** Mendoza, Imelda  
**Sent:** Monday, October 31, 2016 3:57 PM  
**To:** Tseng, Chien-Te K.  
**Subject:** RE: RE: RE: Application for Visiting Scholar (Self-funded)

Dr. Tseng,

Dr Le Duc has some time tomorrow morning to chat with you regarding this visiting scholar. He is available between 9:00-10:00 and then not available again until he returns on Nov 7. Please let me know if you are available to chat.

Thank you.  
Imelda

**From:** LeDuc, James W.  
**Sent:** Monday, October 31, 2016 9:40 AM  
**To:** Tseng, Chien-Te K. <sktseng@UTMB.EDU>  
**Cc:** Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** RE: RE: RE: Application for Visiting Scholar (Self-funded)

Great, thanks. I wonder if we might link in these collaborations with Dr Shi Zhengli? I recall her mentioning her work on several coronaviruses that they have isolated from bats and other species. Might be an interesting expansion to diverse coronaviruses.

Imelda, please see if you can find 30 minute for me to meet with Kent.

Thanks, Jim

**From:** Tseng, Chien-Te K.  
**Sent:** Monday, October 31, 2016 9:29 AM  
**To:** LeDuc, James W. <jwleduc@UTMB.EDU>

**Subject:** FW: RE: RE: Application for Visiting Scholar (Self-funded)

Hi, Jim,

I do have a project close to her research interest and would be happy to accommodate her BSL-3 and ABSL-3 training. However, it will be up to you to identify a trainer/mentor for her BSL-4 training. Let me know when you get time for a chat over this. Thanks.

Best,  
Kent

**From:** 黄弋 [mailto:hy@wh.iov.cn]  
**Sent:** Thursday, April 28, 2016 11:59 PM  
**To:** Tseng, Chien-Te K.  
**Cc:** Yuan Zhiming  
**Subject:** Re: RE: RE: Application for Visiting Scholar (Self-funded)

Dear Prof. Chien-Te (Kent) Tseng,

Thanks for your introduction about BSL-3, BSL-3 enhanced Lab and BSL-4 Lab training. I'm afraid that I do not have more than 1 year time for these trainings according to the fellowship regulation. Maybe I can apply another chance or extending time for BSL-4 training after completing this application. But the BSL-3 and BSL-3 enhanced Lab trainings in UTMB surprised me. I can hardly imagine what training is needed for such a long time. It must be very different from ours and it is very attractive to me.

So I think one of the most important things now is to complete the application process. There are some requests for invitation letter content. Please see attachment. I have translated it into English though it is probably not very precise or maybe you understand Chinese...

In addition, I have to describe the project plan, significance, goal and possible outcome to finish the application form. Would you please tell me the research proposal or give me some materials to prepare a research plan. I think it is necessary to discuss one or two research questions and methods because what I will apply is visiting scholar fellowship, not the fellowship for technician. I am indeed interested in innate antiviral signaling pathway on research and it is just closer to my research interest if the subjective investigated is BSL-4 pathogen. Thanks for your help.

Best wishes,

huangyi

-----原始邮件-----

**发件人:** "Tseng, Chien-Te K." <[sktseng@UTMB.EDU](mailto:sktseng@UTMB.EDU)>

**发送时间:** 2016年4月26日 星期二

**收件人:** "黄弋" <[hy@wh.iov.cn](mailto:hy@wh.iov.cn)>

**抄送:** "Yuan Zhiming" <[yzm@wh.iov.cn](mailto:yzm@wh.iov.cn)>

**主题:** RE: RE: Application for Visiting Scholar (Self-funded)

Dear Dr. Huang,

Thanks for the heads up. I realize that gaining access to BSL-4 is your goal and I do agree that you should get BSL-4 trained while you're at UTMB. In addition to MERS and SARS, I do have an active NOU (Notification of Utilization) working pathogenic strain of Rift Valley fever virus (ZH501). Although ZH501 is a BSL-3\_Enhanced agent, my colleague at Galveston National Laboratory at UTMB handles it under BSL-4 containment laboratory. It all depends on how long you can stay in my lab as just getting the official training even under the BSL-3 and animal BSL-3 will take a minimal of 8 months and I anticipate it will take longer for getting trained for BSL-4. It is for sure that you will get well-trained under BSL-3 and BSL-3\_Enhanced laboratories as I will likely be the trainer if I have time. Otherwise, I will designate others for your training purpose. As for BSL-4, we have few PIs who should and would be happy to help you out. I do recall that we just have a scientist who just completed her BSL-4 training with a colleague of mine and recently returned to China. The short answer is "Yes" and you will have chance to get BSL-4 trained as well depending up how long you plan to stay at UTMB.

I will send you an invitation as soon as I know how long you can stay abroad.

Best,

Kent

**From:** 黄弋 [mailto:hy@wh.iov.cn]

**Sent:** Tuesday, April 26, 2016 9:00 AM

**To:** Tseng, Chien-Te K.

**Cc:** Yuan Zhiming

**Subject:** Re: RE: Application for Visiting Scholar (Self-funded)

Dear Prof. Chien-Te (Kent) Tseng,

I greatly appreciate your response, while I am so sorry for late reply because I have a training course about biosafety in this two weeks and I have to finish a project application during the same time.

As you known, I am really interested in innate antiviral signaling pathway, especially induced by emerging viruses, and SARS CoV and MERS-CoV are valuable research subjects. So I will go to your group to do some work if I get the visiting scholar fellowship. Would you please prepare the invitation letter for me? I will finish the application with your invitation letter in the first week of May.

There is another point I want to talk to you in earnest. Could I have an opportunity to get the access to BSL-4 in Galveston National Laboratory during I stay in your lab? I will work in our BSL-4 in the near future after all, and I think you could understand why I want to visit more and to learn more. I have discussed this issue with our laboratory director and obtained his agreement. And I think I should also get your permission if I could work in your group. Of course, our director will consider some things related with BSL-4 training such as funds and schedule and he may talk about these things with you when necessary. It may be another reason why I in return so late. I look forward to your response and welcome any questions.

Best wishes,

huangyi

-----原始邮件-----

**发件人:** "Tseng, Chien-Te K." <sktseng@UTMB.EDU>

**发送时间:** 2016年4月18日 星期一

**收件人:** "黄弋" <hy@wh.iov.cn>

**抄送:** "Yuan Zhiming" <yzm@wh.iov.cn>

**主题:** RE: Application for Visiting Scholar (Self-funded)

Dear Dr. Huang,

Thank you for your interest for pursuing studies on innate antiviral signaling pathways in my laboratory. Although active projects that appear fitting in well to your research interest, it has nothing to do with Junin virus. Instead, we are

focusing on dissecting SARS-CoV- and, especially, MERS-CoV-induced innate signaling cascades by using pathologically relevant human lung epithelial cells, transgenic mouse models, and some of the clinical specimens from Saudi (MERS-CoV). And you are certainly welcome to stay in my lab only if you're interested. By the way, both SARS-CoV and MERS-CoV are label 3 agents.

Please let me know your thought. Thanks.

Best wishes,

Kent

**From:** 黄弋 [mailto:hy@wh.iov.cn]

**Sent:** Monday, April 18, 2016 6:37 AM

**To:** Tseng, Chien-Te K.

**Cc:** Yuan Zhiming

**Subject:** Application for Visiting Scholar (Self-funded)

Dear Prof. Chien-Te (Kent) Tseng,

I wish to apply for a visiting scholar position in your group (b)(6)

(b)(6) I am currently an associate research fellow in National High-Level Biosafety Laboratory (Wuhan), CAS. Now I am applying for a funding opportunity for conducting overseas research in the scholarship program called "government-sponsored visiting scholar research", which is launched by Chinese Academy of Sciences. By that the fee for my studying and living abroad will be totally supported by Chinese Academy of Sciences.

(b)(6)

Attached please find my CV with details of my education, research interests, research experience, etc. I welcome any questions from you regarding this application, and I look forward to your response. Thank you very much for your time and consideration.

Sincerely yours,

Yi Huang, Ph.D,

Associate Research scientist

Wuhan Institute of Virology,

Chinese Academy of Sciences,

Wuhan 430071,

P. R. China



---

**From:** Bente, Dennis A.  
**Sent:** Tuesday, November 1, 2016 12:21 PM  
**To:** Han Xia (Yahoo)  
**Subject:** FW: Visiting Scholar from Wuhan institute of Virology, CAS  
**Attachments:** CV.pdf

Hi Han,  
Have you met this person? What are your thoughts?  
Dennis

**From:** 黄弋 [<mailto:hy@wh.iov.cn>]  
**Sent:** Monday, October 31, 2016 8:06 AM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>  
**Cc:** Yuan Zhiming <[yzm@wh.iov.cn](mailto:yzm@wh.iov.cn)>  
**Subject:** Visiting Scholar from Wuhan institute of Virology, CAS

Dear Pro. James W. Le Duc:

This is an E-mail from Huangyi, Wuhan institute of Virology, CAS. It's great to have an opportunity to introduce myself to you in Wuhan.

Attached please find my CV with details of my education, research interests and research experience. (b)(6)

(b)(6)

I hope to carry out some research works on mechanisms of "immune paralysis" (or inhibition of innate immune responses) caused by filoviruses and arenaviruses and on development of the therapeutics targeting viral interferon-antagonist functions. Of course, I must gain access to Galveston National Laboratory P4 Lab before that.

During my application of visiting scholar fellowship, I contacted with Pro. Chien-Te (Kent) Tseng. He is a nice person. I might not be able to get this fellowship without his help. And Pro. Chien-Te (Kent) Tseng agree me to get BSL-4 training while I am at UTMB. I will try my best to obtain the BSL-4 certificate as soon as possible based on my training experience in Lyon P4 lab, maybe half a year, if possible. Then I want to do some research works in the rest of time and I also hope to take this opportunity to undertake more cooperation between us. I had not told Pro. Chien-Te (Kent) Tseng that I have got the fellowship until now because of some necessary procedures I am dealing with, but I will contact with him to talk about the research plan with him soon and tell you the details.

I welcome any questions and suggestions, and I look forward to your response. Thank you very much!

Sincerely yours,

--

Yi Huang, Ph.D,  
Associate scientist  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
Wuhan 430071,  
P. R. China

## Visiting Scholar Applicant

Yi HUANG  
Wuhan Institute of Virology,  
Chinese Academy of Sciences,  
430071, Wuhan, China  
Email: [hy@wh.iov.cn](mailto:hy@wh.iov.cn)  
Tel: [+86] (27)-51319680

### **PERSONAL INFORMATION**

---

First Name: Yi

Last Name: HUANG

Gender: Female

Birth Date: [REDACTED]

Marital Status: (b)(6)

(b)(6)



Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

(b)(6)

of the Freedom of Information and Privacy Act

**National Academy of Sciences (NAS)  
Committee on International Security and Arms Control (CISAC) bio group  
Meetings to Further Develop Joint U.S.-China dialogue on Emerging Infections, Laboratory Safety, and  
Global Health Security**

October 17-24, 2016  
Beijing, Wuhan and Kunming, China

**Trip Notes**

**Travelers:**

**David R. Franz, DVM, Ph.D.**  
Former Commander, USAMRIID  
[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)

**James W. Le Duc, Ph.D.**  
Director, Galveston National Laboratory  
[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)

**Point of contact:**

**Benjamin J. Rusek<sup>1</sup>**, Senior Program Officer  
U.S. National Academy of Sciences  
[brusek@nas.edu](mailto:brusek@nas.edu) 001.202.839.0075

**October 17-18, Beijing**

Dinner with Mifang Liang (from the National Institute for Viral Diseases Control and Prevention, China CDC). Good discussion and positive support for the proposed 2017 CAS Institute of Virology joint meeting in Wuhan. Liang called ahead to her friend Dr. Hu Yunzhang in Kunming (to confirm the Kunming meeting later in the week) where Franz and Le Duc were very warmly greeted and had excellent discussions (see below). Franz, Le Duc, and Mifang discussed the possibility of one of Liang's recent graduates doing a postdoc at the Galveston National Laboratory (GNL).

CBSG---Franz and Le Duc learned indirectly that all Chinese Biological Scientists Group (CBSG, CISAC's original Chinese partner on bio issues) activities are presently on hold due to the ongoing [PLA] reorganization. After the reorganization is complete (in approximately 6 months) CBSG will be able to reengage. Former CBSG representatives will be notified of the planned 2017 meeting in Wuhan and will be invited to attend and/or send representative(s) from the reconstituted group.

CICIR—Dr. Yang Xiao (the only life scientist in the organization) and the Director of the China Institutes of Contemporary International Relations (CICIR), Dr Guo Xiaobing (met with in 2015), welcomed Franz and Le Duc for a 45 min visit. Franz and Le Duc described the NAS meeting history and plans for the second meeting and invited Dr. Xiao to attend. They talked briefly about who makes policy across China CDC, Ag and related areas. CICIR is very interested in the policy-science interface and also the science-public information interface, which appears to be gaining importance in Chinese society. They discussed the possibility of publishing a joint paper on bio issues as an emerging threat in their *Contemporary International Relations* journal, focusing on One Health, disease outbreaks, and emerging biotechnologies. [Will look at broader implications of before moving forward.] They also discussed the differences between nuclear and bio security issues.

---

<sup>1</sup> Ben Rusek did not receive a Chinese visa in time to travel to China with Franz and Le Duc.

CAS—Met with Hui Sun and Zhang Qingquan at the Chinese Academy of Sciences (CAS) headquarters. They discussed dates for the Wuhan workshop; CAS suggested May or Early June 2017. Because Ben has funding for a follow-on they also discussed options for a meeting in the United States later in the 2017. CAS expressed some concern about having two meetings in one year, but seemed to understand when Franz and Le Duc explained the schedule and constraints placed on NAS by the funding agency. Sun defers to Dr. Yuan in Wuhan and Dr George Gao for details. He likes the idea of having as many young scientists as possible involved in the meeting, believes that we should publish some kind of joint report from the next meeting and suggested that we publish a meeting summary from the September 2015 meeting.

#### **October 19-22, Wuhan**

Dr. Yuan Zhiming et al.—Discussed dates to hold the CAS-NAS workshop at the CAS Institute of Virology in Wuhan; Yuan thought May or early June would work well. He suggested a 2-day meeting and they discussed having about 50 people total with 8-10 from the U.S. Regarding topics. Yuan mentioned that George Gao (key organizer of the 2015 meeting in Beijing) had requested that Next-generation Sequencing and Gain of Function (GOF) research be discussed in 2017. Yuan also mentioned ethical issues including ‘responsible life sciences research’. He also liked the idea of a section on public communications. Dr. Yuan provided the name and contacts for Han Zhan as a POC for Ben Rusek re. meeting planning and execution. Franz met with Zhan’s colleague and then connected Rusek by email the next day. Yuan also suggested that NAS and CAS should have an exchange of letters, first with one to him proposing the meeting and providing a general outline of its contents and focus and then NAS and CAS vice president letter exchanges, as was done for the 2015 meeting.

Le Duc and Franz attended the 7th International Symposium on Emerging Viral Diseases and as part of the symposium, toured the new, state of art P-4 (BSL-4) high containment laboratory (approximately a 40 minute drive from the Institute of Virology) and met the French experts involved with the lab's design and construction. (Apparently the Department of Agriculture is involved in licensing/certifying of the new lab.) The institute also anticipates that the new facility will be designated as a WHO Collaborating Center for Emerging Infectious Diseases. The lab will be designated as a “Virus Stock Center.” A similar designation already exists in Beijing (presumably at C-CDC). There are issues to be resolved in coordination between agriculture and human health oversight (ABSL-4 vs BSL-4). They stressed the importance of collaborations and global engagement in the context of One Health. They are considering creating an Innovation Center for Biosafety Training as a certification course with established standards. (Note that the Kunming lab has also expressed interest at becoming a national training center for biosafety.)

#### **Potential Venue/Hotel for 2017 meeting**

Franz visited the Wuhan Weston (Wan Dan) but he was not able to inspect the government owned Eastlake Hotel; the two were recommended by Dr Yuan as possible venues for the 2017 meeting. The hotel where symposium participants stayed (Hong Shan hotel), also government owned, is considered less than ideal as a meeting venue. (Note that Wifi was very poor essentially everywhere throughout the trip; very slow and often not responsive at all. Texting worked better than emails.) The Wuhan Weston appears to be an excellent choice as the venue for the 2017 meeting. Dr. Le Duc has stayed in the Weston on a previous trip to Wuhan.



## **October 22-25, Kunming**

Franz and Le Duc were warmly received by Dr. Hu Yunzhang and Dr. Liu Longding from the Institute of Medical Biology, Chinese Academy of Medical Sciences. Other young PhDs and students helped take escort them throughout the stay, including hosting a trip to the Stone Forest over the weekend stay. Dr. Hu agreed that May and early June work well as dates for the 2017 meeting in Wuhan. His interests were slightly different (but compatible with those of Yuan in Wuhan), probably partially because of the Kunming organization's relative isolation during the planning and building of their lab and current state of the lab project. After much discussion, he proposed the following topics: Emergency Health response [Dedicated high-containment 'hospital room' in the lab vs. working with local hospital for care of a LAI patient], Environmental response at the lab (fire, police, environment release and paramedic), Public Communications, Lab Commissioning, Pathogen transfer (domestic and international) and Biosafety and biosecurity training. They discussed with Dr. Hu how best to incorporate/approach the Ag labs at Harbin (also 'P-4') and Lanzhou China. He will also check with his director about getting permission to hold a meeting at his facility, at a later date.

## **Topics and agenda**

Potential topics: Response system (public health system) for emerging disease control focusing on global health security, Host-pathogen interaction (pathogenesis etc), Anti-viral countermeasures (strategy and R&D), Gain of function/Gene editing and dealing with new technologies, biosafety, biosecurity and bioethics, Leadership and Culture/ethics, Public/government communication.

They discussed a focus on cross-cutting issues and technologies rather than individual agents or families of agents as was done in 2015, but rather cross-cutting technologies/issues. Topics could include issues associated with combating some key diseases of concern like vector borne disease (e.g. Zika and Dengue) and other issues like regulatory (reference collections/academic regulation issues) and anti-viral countermeasures (vaccines and drugs).

## **Additional Issues**

Finally, Le Duc and other GNL staff connections were invaluable. Le Duc and his colleagues having trained scientists and staff at several of these labs made a huge difference as Le Duc and Franz engaged. There were several scientists at each location that had spent time at the GNL and had already established relationships of trust with Le Duc or members of his staff. It made the trip a lot easier. Dr Hu (Kunming) asked about sending three additional scientists to GNL for biosafety training at BSL-2/3 later this year or early in 2017.

## **Next steps**

- (1) NAS staff (Rusek) draft the letter to Dr Yuan with details of proposed 2017 meeting in Wuhan. This letter will propose possible specific dates and potential agenda items and address logistics.
- (2) NAS staff will draft letter from Diane Griffin (NAS VP) to the VP of CAS outlining the plan.

**National Academy of Sciences (NAS)  
Committee on International Security and Arms Control (CISAC) bio group  
Meetings to Further Develop Joint U.S.-China dialogue on Emerging Infections, Laboratory Safety, and  
Global Health Security**

October 17-24, 2016  
Beijing, Wuhan and Kunming, China

**Trip Notes**

**Travelers:**

**David R. Franz**, DVM, Ph.D.  
Former Commander, USAMRIID  
[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)

**James W. Le Duc**, Ph.D.  
Director, Galveston National Laboratory  
[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)

**Point of contact:**

**Benjamin J. Rusek<sup>1</sup>**, Senior Program Officer  
U.S. National Academy of Sciences  
[brusek@nas.edu](mailto:brusek@nas.edu) 001.202.839.0075

**October 17-18, Beijing**

Dinner with Mifang Liang (from the National Institute for Viral Diseases Control and Prevention, China CDC). Good discussion and positive support for the proposed 2017 CAS Institute of Virology joint meeting in Wuhan. Liang called ahead to her friend Dr. Hu Yunzhang in Kunming (to confirm the Kunming meeting later in the week) where Franz and Le Duc were very warmly greeted and had excellent discussions (see below). Franz, Le Duc, and Mifang discussed the possibility of one of Liang's recent graduates doing a postdoc at the Galveston National Laboratory (GNL).

CBSG---Franz and Le Duc learned indirectly that all Chinese Biological Scientists Group (CBSG, CISAC's original Chinese partner on bio issues) activities are presently on hold due to the ongoing [PLA] reorganization. After the reorganization is complete (in approximately 6 months) CBSG will be able to reengage. Former CBSG representatives will be notified of the planned 2017 meeting in Wuhan and will be invited to attend and/or send representative(s) from the reconstituted group.

CICIR—Dr. Yang Xiao (the only life scientist in the organization) and the Director of the China Institutes of Contemporary International Relations (CICIR), Dr Guo Xiaobing (met with in 2015), welcomed Franz and Le Duc for a 45 min visit. Franz and Le Duc described the NAS meeting history and plans for the second meeting and invited Dr. Xiao to attend. They talked briefly about who makes policy across China CDC, Ag and related areas. CICIR is very interested in the policy-science interface and also the science-public information interface, which appears to be gaining importance in Chinese society. They discussed the possibility of publishing a joint paper on bio issues as an emerging threat in their *Contemporary International Relations* journal, focusing on One Health, disease outbreaks, and emerging biotechnologies. [Will look at broader implications of before moving forward.] They also discussed the differences between nuclear and bio security issues.

---

<sup>1</sup> Ben Rusek did not receive a Chinese visa in time to travel to China with Franz and Le Duc.

CAS—Met with Hui Sun and Zhang Qingquan at the Chinese Academy of Sciences (CAS) headquarters. They discussed dates for the Wuhan workshop; CAS suggested May or Early June 2017. Because Ben has funding for a follow-on they also discussed options for a meeting in the United States later in the 2017. CAS expressed some concern about having two meetings in one year, but seemed to understand when Franz and Le Duc explained the schedule and constraints placed on NAS by the funding agency. Sun defers to Dr. Yuan in Wuhan and Dr George Gao for details. He likes the idea of having as many young scientists as possible involved in the meeting, believes that we should publish some kind of joint report from the next meeting and suggested that we publish a meeting summary from the September 2015 meeting.

#### **October 19-22, Wuhan**

Dr. Yuan Zhiming et al.—Discussed dates to hold the CAS-NAS workshop at the CAS Institute of Virology in Wuhan; Yuan thought May or early June would work well. He suggested a 2-day meeting and they discussed having about 50 people total with 8-10 from the U.S. Regarding topics. Yuan mentioned that George Gao (key organizer of the 2015 meeting in Beijing) had requested that Next-generation Sequencing and Gain of Function (GOF) research be discussed in 2017. Yuan also mentioned ethical issues including ‘responsible life sciences research’. He also liked the idea of a section on public communications. Dr. Yuan provided the name and contacts for Han Zhan as a POC for Ben Rusek re. meeting planning and execution. Franz met with Zhan’s colleague and then connected Rusek by email the next day. Yuan also suggested that NAS and CAS should have an exchange of letters, first with one to him proposing the meeting and providing a general outline of its contents and focus and then NAS and CAS vice president letter exchanges, as was done for the 2015 meeting.

Le Duc and Franz attended the 7th International Symposium on Emerging Viral Diseases and as part of the symposium, toured the new, state of art P-4 (BSL-4) high containment laboratory (approximately a 40 minute drive from the Institute of Virology) and met the French experts involved with the lab's design and construction. (Apparently the Department of Agriculture is involved in licensing/certifying of the new lab.) The institute also anticipates that the new facility will be designated as a WHO Collaborating Center for Emerging Infectious Diseases. The lab will be designated as a “Virus Stock Center.” A similar designation already exists in Beijing (presumably at C-CDC). There are issues to be resolved in coordination between agriculture and human health oversight (ABSL-4 vs BSL-4). They stressed the importance of collaborations and global engagement in the context of One Health. They are considering creating an Innovation Center for Biosafety Training as a certification course with established standards. (Note that the Kunming lab has also expressed interest at becoming a national training center for biosafety.)

#### **Potential Venue/Hotel for 2017 meeting**

Franz visited the Wuhan Weston (Wan Dan) but he was not able to inspect the government owned Eastlake Hotel; the two were recommended by Dr Yuan as possible venues for the 2017 meeting. The hotel where symposium participants stayed (Hong Shan hotel), also government owned, is considered less than ideal as a meeting venue. (Note that Wifi was very poor essentially everywhere throughout the trip; very slow and often not responsive at all. Texting worked better than emails.) The Wuhan Weston appears to be an excellent choice as the venue for the 2017 meeting. Dr. Le Duc has stayed in the Weston on a previous trip to Wuhan.

## **October 22-25, Kunming**

Franz and Le Duc were warmly received by Dr. Hu Yunzhang and Dr. Liu Longding from the Institute of Medical Biology, Chinese Academy of Medical Sciences. Other young PhDs and students helped take escort them throughout the stay, including hosting a trip to the Stone Forest over the weekend stay. Dr. Hu agreed that May and early June work well as dates for the 2017 meeting in Wuhan. His interests were slightly different (but compatible with those of Yuan in Wuhan), probably partially because of the Kunming organization's relative isolation during the planning and building of their lab and current state of the lab project. After much discussion, he proposed the following topics: Emergency Health response [Dedicated high-containment 'hospital room' in the lab vs. working with local hospital for care of a LAI patient], Environmental response at the lab (fire, police, environment release and paramedic), Public Communications, Lab Commissioning, Pathogen transfer (domestic and international) and Biosafety and biosecurity training. They discussed with Dr. Hu how best to incorporate/approach the Ag labs at Harbin (also 'P-4') and Lanzhou China. He will also check with his director about getting permission to hold a meeting at his facility, at a later date.

## **Topics and agenda**

Potential topics: Response system (public health system) for emerging disease control focusing on global health security, Host-pathogen interaction (pathogenesis etc), Anti-viral countermeasures (strategy and R&D), Gain of function/Gene editing and dealing with new technologies, biosafety, biosecurity and bioethics, Leadership and Culture/ethics, Public/government communication.

They discussed a focus on cross-cutting issues and technologies rather than individual agents or families of agents as was done in 2015, but rather cross-cutting technologies/issues. Topics could include issues associated with combating some key diseases of concern like vector borne disease (e.g. Zika and Dengue) and other issues like regulatory (reference collections/academic regulation issues) and anti-viral countermeasures (vaccines and drugs).

## **Additional Issues**

Finally, Le Duc and other GNL staff connections were invaluable. Le Duc and his colleagues having trained scientists and staff at several of these labs made a huge difference as Le Duc and Franz engaged. There were several scientists at each location that had spent time at the GNL and had already established relationships of trust with Le Duc or members of his staff. It made the trip a lot easier. Dr Hu (Kunming) asked about sending three additional scientists to GNL for biosafety training at BSL-2/3 later this year or early in 2017.

## **Next steps**

- (1) NAS staff (Rusek) draft the letter to Dr Yuan with details of proposed 2017 meeting in Wuhan. This letter will propose possible specific dates and potential agenda items and address logistics.
- (2) NAS staff will draft letter from Diane Griffin (NAS VP) to the VP of CAS outlining the plan.

**National Academy of Sciences (NAS)  
Committee on International Security and Arms Control (CISAC) bio group  
Meetings to Further Develop Joint U.S.-China dialogue on Emerging Infections, Laboratory Safety, and  
Global Health Security**

October 17-24, 2016  
Beijing, Wuhan and Kunming, China

**Trip Notes**

**Travelers:**

**David R. Franz**, DVM, Ph.D.  
Former Commander, USAMRIID  
[davidrfranz@gmail.com](mailto:davidrfranz@gmail.com)

**James W. Le Duc**, Ph.D.  
Director, Galveston National Laboratory  
[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)

**Point of contact:**

**Benjamin J. Rusek**<sup>1</sup>, Senior Program Officer  
U.S. National Academy of Sciences  
[brusek@nas.edu](mailto:brusek@nas.edu) 001.202.839.0075

**October 17-18, Beijing**

Dinner with Mifang Liang (from the National Institute for Viral Diseases Control and Prevention, China CDC). Good discussion and positive support for the proposed 2017 CAS Institute of Virology joint meeting in Wuhan. Liang called ahead to her friend Dr. Hu Yunzhang in Kunming (to confirm the Kunming meeting later in the week) where Franz and Le Duc were very warmly greeted and had excellent discussions (see below). Franz, Le Duc, and Mifang discussed the possibility of one of Liang's recent graduates doing a postdoc at the Galveston National Laboratory (GNL).

CBSG---Franz and Le Duc learned indirectly that all Chinese Biological Scientists Group (CBSG, CISAC's original Chinese partner on bio issues) activities are presently on hold due to the ongoing [PLA] reorganization. After the reorganization is complete (in approximately 6 months) CBSG will be able to reengage. Former CBSG representatives will be notified of the planned 2017 meeting in Wuhan and will be invited to attend and/or send representative(s) from the reconstituted group.

CICIR---Dr. Yang Xiao (the only life scientist in the organization) and the Director of the China Institutes of Contemporary International Relations (CICIR), Dr Guo Xiaobing (met with in 2015), welcomed Franz and Le Duc for a 45 min visit. Franz and Le Duc described the NAS meeting history and plans for the second meeting and invited Dr. Xiao to attend. They talked briefly about who makes policy across China CDC, Ag and related areas. CICIR is very interested in the policy-science interface and also the science-public information interface, which appears to be gaining importance in Chinese society. They discussed the possibility of publishing a joint paper on bio issues as an emerging threat in their *Contemporary International Relations* journal, focusing on One Health, disease outbreaks, and emerging biotechnologies. [Will look at broader implications of before moving forward.] They also discussed the differences between nuclear and bio security issues.

---

<sup>1</sup> Ben Rusek did not receive a Chinese visa in time to travel to China with Franz and Le Duc.

CAS—Met with Hui Sun and Zhang Qingquan at the Chinese Academy of Sciences (CAS) headquarters. They discussed dates for the Wuhan workshop; CAS suggested May or Early June 2017. Because Ben has funding for a follow-on they also discussed options for a meeting in the United States later in the 2017. CAS expressed some concern about having two meetings in one year, but seemed to understand when Franz and Le Duc explained the schedule and constraints placed on NAS by the funding agency. Sun defers to Dr. Yuan in Wuhan and Dr George Gao for details. He likes the idea of having as many young scientists as possible involved in the meeting, believes that we should publish some kind of joint report from the next meeting and suggested that we publish a meeting summary from the September 2015 meeting.

#### **October 19-22, Wuhan**

Dr. Yuan Zhiming et al.—Discussed dates to hold the CAS-NAS workshop at the CAS Institute of Virology in Wuhan; Yuan thought May or early June would work well. He suggested a 2-day meeting and they discussed having about 50 people total with 8-10 from the U.S. Regarding topics. Yuan mentioned that George Gao (key organizer of the 2015 meeting in Beijing) had requested that Next-generation Sequencing and Gain of Function (GOF) research be discussed in 2017. Yuan also mentioned ethical issues including ‘responsible life sciences research’. He also liked the idea of a section on public communications. Dr. Yuan provided the name and contacts for Han Zhan as a POC for Ben Rusek re. meeting planning and execution. Franz met with Zhan’s colleague and then connected Rusek by email the next day. Yuan also suggested that NAS and CAS should have an exchange of letters, first with one to him proposing the meeting and providing a general outline of its contents and focus and then NAS and CAS vice president letter exchanges, as was done for the 2015 meeting.

Le Duc and Franz attended the 7th International Symposium on Emerging Viral Diseases and as part of the symposium, toured the new, state of art P-4 (BSL-4) high containment laboratory (approximately a 40 minute drive from the Institute of Virology) and met the French experts involved with the lab's design and construction. (Apparently the Department of Agriculture is involved in licensing/certifying of the new lab.) The institute also anticipates that the new facility will be designated as a WHO Collaborating Center for Emerging Infectious Diseases. The lab will be designated as a “Virus Stock Center.” A similar designation already exists in Beijing (presumably at C-CDC). There are issues to be resolved in coordination between agriculture and human health oversight (ABSL-4 vs BSL-4). They stressed the importance of collaborations and global engagement in the context of One Health. They are considering creating an Innovation Center for Biosafety Training as a certification course with established standards. (Note that the Kunming lab has also expressed interest at becoming a national training center for biosafety.)

#### **Potential Venue/Hotel for 2017 meeting**

Franz visited the Wuhan Weston (Wan Dan) but he was not able to inspect the government owned Eastlake Hotel; the two were recommended by Dr Yuan as possible venues for the 2017 meeting. The hotel where symposium participants stayed (Hong Shan hotel), also government owned, is considered less than ideal as a meeting venue. (Note that Wifi was very poor essentially everywhere throughout the trip; very slow and often not responsive at all. Texting worked better than emails.) The Wuhan Weston appears to be an excellent choice as the venue for the 2017 meeting. Dr. Le Duc has stayed in the Weston on a previous trip to Wuhan.

## **October 22-25, Kunming**

Franz and Le Duc were warmly received by Dr. Hu Yunzhang and Dr. Liu Longding from the Institute of Medical Biology, Chinese Academy of Medical Sciences. Other young PhDs and students helped take escort them throughout the stay, including hosting a trip to the Stone Forest over the weekend stay. Dr. Hu agreed that May and early June work well as dates for the 2017 meeting in Wuhan. His interests were slightly different (but compatible with those of Yuan in Wuhan), probably partially because of the Kunming organization's relative isolation during the planning and building of their lab and current state of the lab project. After much discussion, he proposed the following topics: Emergency Health response [Dedicated high-containment 'hospital room' in the lab vs. working with local hospital for care of a LAI patient], Environmental response at the lab (fire, police, environment release and paramedic), Public Communications, Lab Commissioning, Pathogen transfer (domestic and international) and Biosafety and biosecurity training. They discussed with Dr. Hu how best to incorporate/approach the Ag labs at Harbin (also 'P-4') and Lanzhou China. He will also check with his director about getting permission to hold a meeting at his facility, at a later date.

## **Topics and agenda**

Potential topics: Response system (public health system) for emerging disease control focusing on global health security, Host-pathogen interaction (pathogenesis etc), Anti-viral countermeasures (strategy and R&D), Gain of function/Gene editing and dealing with new technologies, biosafety, biosecurity and bioethics, Leadership and Culture/ethics, Public/government communication.

They discussed a focus on cross-cutting issues and technologies rather than individual agents or families of agents as was done in 2015, but rather cross-cutting technologies/issues. Topics could include issues associated with combating some key diseases of concern like vector borne disease (e.g. Zika and Dengue) and other issues like regulatory (reference collections/academic regulation issues) and anti-viral countermeasures (vaccines and drugs).

## **Additional Issues**

Finally, Le Duc and other GNL staff connections were invaluable. Le Duc and his colleagues having trained scientists and staff at several of these labs made a huge difference as Le Duc and Franz engaged. There were several scientists at each location that had spent time at the GNL and had already established relationships of trust with Le Duc or members of his staff. It made the trip a lot easier. Dr Hu (Kunming) asked about sending three additional scientists to GNL for biosafety training at BSL-2/3 later this year or early in 2017.

## **Next steps**

- (1) NAS staff (Rusek) draft the letter to Dr Yuan with details of proposed 2017 meeting in Wuhan. This letter will propose possible specific dates and potential agenda items and address logistics.
- (2) NAS staff will draft letter from Diane Griffin (NAS VP) to the VP of CAS outlining the plan.



---

**From:** LeDuc, James W.  
**Sent:** Tuesday, January 17, 2017 9:25 AM  
**To:** Shi, Pei yong  
**Subject:** RE: RE: e-Introduction

Thanks very much!

Jim

-----Original Message-----

From: Shi, Pei yong  
Sent: Sunday, January 15, 2017 6:24 PM  
To: LeDuc, James W. <jwleduc@UTMB.EDU>  
Subject: RE: RE: e-Introduction

Hi Jim,

I would propose the following three co-chairs from the Chinese side.

Dr. Cheng-Feng Qin  
Director, Department of Virology,  
State Key Laboratory of Pathogen and Biosecurity, Beijing Institute of Microbiology and Epidemiology,  
No.20 Dongda Street, Fengtai District,  
Beijing 100071, China  
Email: (b)(6)

Dr. Qin's is the leading virologist from Chinese Military, working on flavivirus, influenza, EV71 etc. Recently, his group isolated the first Zika virus in China from an imported index patient returned from America.

Dr. Gong Cheng  
Assistant Professor  
Tsinghua University School of Medicine  
Beijing, China  
Email: gongcheng@mail.tsinghua.edu.cn  
Dr. Cheng is a rising star in studying mosquito and virus interactions. His group has published multiple ground-breaking findings in Nature Microbiology and PLoS Pathogen.

Dr. Zhengli Shi  
Professor  
Wuhan Institute of Virology  
Chinese Academy of Sciences  
Wuhan, China  
Email: zlshi@wh.iov.cn  
Dr. Shi is the leading expert on pathogen discovery from natural reservoir. She has recently published several papers in Science.

From the US side, besides me, I think Mariano Garcia-Blanco will be a great co-chair. His work on host function in different virus systems (dengue, West Nile, RSV, etc) will bring a different exciting aspect to the meeting. This will also engage him to help when we set up the reciprocal meeting at UTMB later this year.



Please let me know if you have any questions or more names.

Thanks!

Pei-Yong

-----Original Message-----

From: LeDuc, James W.  
Sent: Thursday, January 12, 2017 11:45 AM  
To: Shi, Pei yong <peshi@UTMB.EDU>  
Subject: FW: RE: e-Introduction

Just to keep you in the loop on the Wuhan meeting. Your suggestions for co-chairs would be welcomed.

Thanks, Jim

-----Original Message-----

From: Rusek, Benjamin [mailto:BRusek@nas.edu]  
Sent: Wednesday, January 11, 2017 4:35 PM  
To: 'Yuan Zhiming' <yzm@wh.iov.cn>  
Cc: Dave Franz (davidrfranz@gmail.co <davidrfranz@gmail.com>; yixuan@wh.iov.cn; 张晗 (zhanghan@wh.iov.cn) <zhanghan@wh.iov.cn>; LeDuc, James W. <jwleduc@UTMB.EDU>  
Subject: RE: RE: e-Introduction

Dear Dr. Yuan,

Thank you for your note, Dave and Jim would prefer the 17-19 May dates so we would like to reserve those days. We will also explore holding the meeting at the East Lake Hotel in Wuhan, I hope the meeting can include a visit to or a session at the Institute of Virology. Who should I work with on logistics?

Re the agenda, the draft topic list identified 5 topics to discuss at the meeting. Could you or your colleagues suggest Chinese co-chairs for each of those sessions? (Mifang Liang and Fu Gao helped organize the 2015 meeting, it might be useful to engage with them again). We will identify U.S. co-chairs for the sessions as well. The co-chairs could then help us to identify appropriate speakers and further develop the agenda. It would be nice to have a strong representation of science based presentations to balance the safety and ethics sessions.

Thank you for the information about CAS Vice President Tan Tieniu. We will write a letter directly to CAS President Bai Chunli and have the NAS Vice President transmit the letter to CAS (ccing you).

Kind regards,

Ben

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

-----Original Message-----

From: Yuan Zhiming [mailto:yzm@wh.iov.cn]  
Sent: Thursday, January 05, 2017 6:35 PM  
To: Rusek, Benjamin

Cc: Dave Franz (davidrf Franz@gmail.co; yixuan@wh.iov.cn; 张晗 (zhanghan@wh.iov.cn); 'LeDuc, James W.'

Subject: Re: RE: e-Introduction

Importance: High

Deaer Benjamin Rusek,

Thanks for your works for the preparation of the CAS-NAS meeting on emerging infections, laboratory safety and global health security, which wil be held in May 2017 Wuhan. As you knew, I dicussed the schedule with David Franz and James LeDuc while they were in Wuhan last year and I have no further suggestion about the current proposal. Thank you all. I suggest the meeting be held 17-19 May or 24-26 May in East Lake Hotel in Wuhan, you can make the final decision according your situation and let me know the final dates.

By the way, the Vice President of CAS, Tan Tieniu, who is in charge of internation cooperation, just transfered to other position and no longer work in CAS. You can write a letter directedly to President Bai Chunli. Hopefully we can get the offical approval from CAS about the this meeting .

Regards

Yuan Zhiming

>Greetings Dr. Yuan,

>

>I am writing to ask you about the proposed joint CAS NAS Meeting on Emerging Infections, Laboratory Safety, and Global Health Security. David Franz and James Le Duc (cced) discussed the meeting during their October 2016 visit to Wuhan.

>

>Could you suggest dates (2-3 day period) during the months of May and June that would work best for your participation and the participation of others at the Wuhan Institute of Virology? We would like to get the date settled before the upcoming new year break so we can start inviting American experts. I also attached a draft list of topics we might discuss at the meeting for your review and comment.

>

>After your response and review I will transmit a letter from the NAS VP (Diane Griffin) to the CAS VP outlining the meeting so we can get official approval. Please let us know if you have any questions and we look forward to your response.

>

>Kind regards,

>

>Benjamin J. Rusek

>The U.S. National Academy of Sciences

>1-202-334-3975

>

>From: LeDuc, James W. [mailto:jwleduc@UTMB.EDU]

>Sent: Monday, November 28, 2016 5:30 PM

>To: Yuan Zhiming

>Cc: Rusek, Benjamin; Dave Franz (davidrf Franz@gmail.com)

>Subject: FW: e-Introduction

>Importance: High

>

>Dear Zhiming,

>

>I hope this note finds you well. Attached please find a first draft of a possible agenda for the meeting we discussed to be held in Wuhan next year. Dave, Ben and I put this together to start the dialogue and we welcome your suggestions,

revisions or alternate topics. I think that we have some flexibility in the selection of topics under this general theme, and Ben will let us know if we stray too far from our funded mandate. Please let us know also if the dates and possible locations are acceptable. Once we have agreement on the general topics, we can then discuss potential meeting participants and refine the schedule/topics.

>

>Thanks, Jim

>

>James W. Le Duc, Ph.D.

>Director

>Galveston National Laboratory

>University of Texas Medical Branch

>Galveston, TX 77555-0610

>(t) 409-266-6500

>(f) 409-266-6810

>(m) (b)(6)

>

>

>

>From: Rusek, Benjamin [mailto:BRusek@nas.edu]

>Sent: Monday, November 28, 2016 3:41 PM

>To: 'yixuan@wh.iov.cn' <yixuan@wh.iov.cn<mailto:yixuan@wh.iov.cn>>

>Cc: 张晗 <zhanghan@wh.iov.cn<mailto:zhanghan@wh.iov.cn>>; davidrfranz

><davidrfranz@gmail.com<mailto:davidrfranz@gmail.com>>; LeDuc, James W.

><jwleduc@UTMB.EDU<mailto:jwleduc@UTMB.EDU>>

>Subject: RE: e-Introduction

>Importance: High

>

>Greetings Han,

>

>I am writing to start the discussion about holding a Joint CAS NAS U.S.-China Meeting on Emerging Infections, Laboratory Safety, and Global Health Security in Wuhan, China next year. David Franz and James Le Duc (cced) discussed the meeting during their October visit to Wuhan, I am sorry I was unable to join them on the trip. Based on your meetings I have put together a possible list of topics that NAS and CAS experts might discuss at a meeting in 2017. It is attached for review and comment. After review I will work to get the CAS VP a letter from the NAS VP (Diane Griffin) outlining the meeting. We look forward to your response.

>

>Kind regards,

>

>Benjamin J. Rusek

>Senior Program Officer

>Policy and Global Affairs Division

>The U.S. National Academy of Sciences, Engineering and Medicine

>Phone: 001-202-334-3975

>Cell: (b)(6)

>Fax: 001-202-334-1730

>Skype: (b)(6)

>

>From: yixuan@wh.iov.cn<mailto:yixuan@wh.iov.cn>

>[mailto:yixuan@wh.iov.cn]

>Sent: Thursday, October 20, 2016 7:30 AM

>To: Rusek, Benjamin

>Cc: 张晗; davidrf Franz  
>Subject: Re: e-Introduction  
>  
>Dr. Ben:  
>  
>I'm Mr Xuan, and I have send the tentative plans we discussed today to Miss han this afternoon. Look forward to further communication.  
>  
>Best wishes.  
>  
>  
>Xuan Yi, Dr.  
>Office of Research and Development  
>  
>  
>From: davidrf Franz<mailto:davidrf Franz@gmail.com>  
>Date: 2016-10-20 19:16  
>To: Benjamin Rusek<mailto:BRusek@nas.edu>;  
>zhanghan<mailto:zhanghan@wh.iov.cn>  
>CC: yixuan<mailto:yixuan@wh.iov.cn>  
>Subject: e-Introduction  
>Ben, Miss Han will be your POC for conference planning. She was busy  
>today so I met with Mr Xuan and described the tentative plans as we  
>know them. He will fill her in. Best, dave  
>  
>Sent from my iPhone

---

**From:** davidrf Franz@gmail.com  
**Sent:** Thursday, February 9, 2017 2:23 PM  
**To:** LeDuc, James W.  
**Cc:** Benjamin Rusek (BRusek@nas.edu); Shi, Pei yong  
**Subject:** Re: Wuhan CAS-NAS mtg

Wow! This looks great, Jim. I'll be back in country Friday morning, tomorrow. Should be available for call anytime. How about Peggy? Last time I talked to her she was interested. That would give us some senior leadership. Dave

Sent from my iPhone

On Feb 10, 2017, at 12:01 AM, LeDuc, James W. <jwleduc@UTMB.EDU> wrote:

Ben and Dave,

As mentioned previously, Pei Yong has agreed to serve on our organizing committee and I discussed the upcoming meeting with him, and he was then able to talk to Zhiming last night to get his initial thoughts on speakers, etc. The good news is that Zhiming remains very excited about the meeting and his goal is to engage with very senior Chinese leadership as participants. He proposes to invite the vice chairman of CAS, Ya Ping Zhang, as well as George Gao and Xu Jian Guo, a high-ranking leader of China CDC. He will also invite participants from Kunming, and the agriculture lab in Harbin. He envisions a small meeting on the order of about 30 senior officials for the core discussions. He will open up the presentations to a larger group of perhaps 100 total, but their participation would be significantly limited.

Zhiming is re-thinking the location of the meeting and is considering a luxury hotel in Wuhan as opposed to the lakeside retreat, since it is a bit out of the way.

The current plan is for a 2 ½ day meeting, to include a site visit to the new BSL4 lab—details to follow if this is part of the 2 ½ day agenda or an additional optional excursion.

We will be responsible for the travel and hotels of US participants; they will handle the expenses for the Chinese participants. I guess we will need to revisit the hotel meeting site costs depending upon where Zhiming suggests.

He liked the idea of a reception in the museum and had other suggestions for evening entertainment that we can discuss later.

Can we set up a conference call for early next week to discuss potential speakers? Please let us know a convenient time.

During the call, we need to discuss:

- Appropriate high level NAS participation to match the CAS vice-chair. I wonder if there is any flexibility in Diane's schedule. Alternatively, if she can make the following week, I could drop out.

- Greater detail of the proposed agenda (I told Pei Yong that we would have about half “hard science” talks and half operations/management/biosafety etc.). Ben, we need to be clear on the expectations of the sponsors.
- We are proposing that all talks be at a high level, appropriate for organizational leaders who deal primarily with policy issues—nothing “in the weeds”.
- As we will have a number of CAS members, we need to include some NAS members as well. I mentioned Peter Palese but we will need others. Ben, how many speakers aside from you, Dave, me and Pei Yong can we support?
- We should include Tom Ksiazek if he’s available.

Below are some suggested speakers where we might help out.

**1. Improving the public health response to disease outbreaks and issues associated with combating key diseases of concern to China and the U.S.**

- Anti-viral countermeasures (strategy and R&D) Pei Yong Shi
- Host-pathogen interaction (pathogenesis)
- Combating vector borne disease (e.g. Zika and Dengue) Pei Yong Shi can give an overview of our institutional response to Zika,
- Regulatory issues (maintaining reference collections/academic repositories)
- Pathogen transfer (domestic and international)
- Improving the laboratory’s role in emergency health response (Discussion of issues like dedicated high-containment ‘hospital room’ in the lab vs. working with local hospital for care of a LAI patient outside the lab) Le Duc can relate UTMB approach

**2. Gain of function research, gene editing, targeting and delivery and other novel biotechnology**

**3. Biosafety, biosecurity and bioethics**

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training we are continuing to discuss collaborations with training programs with both Wuhan and Kunming and perhaps we will have a signed agreement to discuss by then.
- Laboratory leadership, culture and ethics Dave Franz

**4. Laboratory commissioning, construction and sustainment**

- Requirements for high containment labs in China and the U.S and discussion of recent projects (Possible presentation title: *“Being a good neighbor” lessons learned from Boston, UTMB and KSU*)
- Community relations and public communication (Possible presentation title: *High-containment labs in the community: Health, Safety and Public Relations*)

**5. Areas for Enhanced Cooperation on emerging Infections, laboratory safety, and global health security between China and the U.S.**

- Influenza, including avian influenza Peter Palese/Harbin speaker

Thanks, Jim

James W. Le Duc, Ph.D.  
Director

Galveston National Laboratory  
University of Texas Medical Branch  
Galveston, TX 77555-0610  
(t) 409-266-6500  
(f) 409-266-6810  
(m) (b)(6)

---

**From:** Hamburg, Margaret <MHamburg@nas.edu>  
**Sent:** Thursday, February 9, 2017 5:45 PM  
**To:** Rusek, Benjamin  
**Cc:** Hamburg, Margaret;Lowenthal, Micah;LeDuc, James W.;Dave Franz (davidrfranz@gmail.com)  
**Subject:** Re: Available to attend the China-U.S. Workshop on Emerging Infections, Laboratory Safety and Global Health Security May 17-19 in Wuhan?

Hello. Unfortunately I will not be available to travel to China at that time. I am disappointed (b)(6)  
(b)(6)

Peggy

Sent from my iPhone

On Feb 9, 2017, at 3:35 PM, Rusek, Benjamin <BRusek@nas.edu> wrote:

Greetings Peggy,

CISAC members David Franz, Jim Le Duc and Diane Griffin have been working with CISAC's Chinese counterpart, the Chinese Biological Scientists Group (CBSG) and with the Chinese Academy of Sciences to plan the Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security. The meeting, set to take place in Wuhan, China and include a visit to the new CAS National Institute of Virology BSL-4 lab, will feature high level Chinese participants like vice chairman of CAS, Ya Ping Zhang, as well as George Gao and Xu Jian Guo, high-ranking leaders of China CDC. The organizers are working on the agenda but I have attached a letter from Diane to CAS president Bai Chunli that includes a few more details on the meeting.

The organizers have settled on 17-19 May 2017 as the dates for the meeting. Are you available to attend during that week? We are happy to answer any questions you may have.

Kind regards,

Benjamin J. Rusek  
Senior Program Officer  
Committee on International Security and Arms Control (CISAC)  
The U.S. National Academy of Sciences  
500 5<sup>th</sup> St. NW  
Washington, DC, USA  
Phone: 1-202-334-3975  
Cell: (b)(6)  
Fax: 1-202-334-1730  
Email: [BRusek@nas.edu](mailto:BRusek@nas.edu)  
Skype: (b)(6)

<Letter to CAS re Wuhan meeting.pdf>



---

**From:** davidrf Franz@gmail.com  
**Sent:** Friday, February 10, 2017 6:56 AM  
**To:** Rusek, Benjamin  
**Cc:** LeDuc, James W.; Shi, Pei yong; Lowenthal, Micah; Mendoza, Imelda  
**Subject:** Re: Wuhan CAS-NAS mtg

All good. Just landed IAD from Delhi. Re call I have mid-day meeting tue and 9am minor procedure Tuesday, otherwise open schedule. Dartmouth and travel Thur and Friday so schedule pretty full. Dave

Sent from my iPhone

On Feb 9, 2017, at 3:23 PM, Rusek, Benjamin <[BRusek@nas.edu](mailto:BRusek@nas.edu)> wrote:

Hi Jim,

I will contact Peggy now and have La Tasha contact the group about the con call.

Kind regard,

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** LeDuc, James W. [<mailto:jwleduc@UTMB.EDU>]  
**Sent:** Thursday, February 09, 2017 3:14 PM  
**To:** Rusek, Benjamin; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))  
**Cc:** Shi, Pei yong; Lowenthal, Micah; Mendoza, Imelda  
**Subject:** RE: Wuhan CAS-NAS mtg

Ben, please go ahead and set up the call for next week. I just spoke to Tom K and I think that he's available—he's definitely interested and Zhiming is anxious to have him participate.

It would be great if we could get Peggy Hamburg to join us. We definitely need high-level participant to match the Chinese side.

Jim

**From:** Rusek, Benjamin [<mailto:BRusek@nas.edu>]  
**Sent:** Thursday, February 09, 2017 1:55 PM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))  
<[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>  
**Cc:** Shi, Pei yong <[peshi@UTMB.EDU](mailto:peshi@UTMB.EDU)>; Lowenthal, Micah <[mloventh@nas.edu](mailto:mloventh@nas.edu)>  
**Subject:** RE: Wuhan CAS-NAS mtg

Greetings,

Fantastic work! Good to virtually meet you Dr. Shi. This is great progress. Your suggestions on Chinese participants are excellent. I am glad that you are in touch with Zhiming, it seems that folks are coming

back on line in China after the new year holiday period. Hope to hear more from Zhiming about the proposed agenda and topic list we sent.

Jim your suggestions on meeting duration, location and the site visit sound very reasonable (thought that the visit might take place on the 3<sup>rd</sup> day).

Re hotel costs, we budgeted for the USG per diem rate in Wuhan (135 USD per night for hotel) but it can be higher if the rate includes things like airport pick up and/or breakfast.

Re # of speakers, we budgeted for 7 total participants for the U.S. but might be able to stretch it to 8 if we get decent prices on flights. U.S. participants discussed so far:

Participants:

Franz

Le Duc

Shi

Rusek (my flight is on hold from Oct trip).

Then maybe invite:

Ksiazek

Palese

Hamburg

1 additional person

Re expectations of the sponsors, half hard science talks and half operations/management/biosafety etc will work well.

Re con call, Happy to have La Tasha set this up for next week. I can also contact, Ksiazek, Palese, and Hamburg and see if they are available/interested.

Kind regards,

Benjamin J. Rusek

The U.S. National Academy of Sciences

1-202-334-3975

---

**From:** LeDuc, James W. [<mailto:jwleduc@UTMB.EDU>]

**Sent:** Thursday, February 09, 2017 1:32 PM

**To:** Rusek, Benjamin; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))

**Cc:** Shi, Pei yong

**Subject:** Wuhan CAS-NAS mtg

**Importance:** High

Ben and Dave,

As mentioned previously, Pei Yong has agreed to serve on our organizing committee and I discussed the upcoming meeting with him, and he was then able to talk to Zhiming last night to get his initial thoughts on speakers, etc. The good news is that Zhiming remains very excited about the meeting and his goal is to engage with very senior Chinese leadership as participants. He proposes to invite the vice chairman of CAS, Ya Ping Zhang, as well as George Gao and Xu Jian Guo, a high-ranking leader of China CDC. He will also invite participants from Kunming, and the agriculture lab in Harbin. He envisions a small meeting on the order of about 30 senior officials for the core discussions. He will open up the

presentations to a larger group of perhaps 100 total, but their participation would be significantly limited.

Zhiming is re-thinking the location of the meeting and is considering a luxury hotel in Wuhan as opposed to the lakeside retreat, since it is a bit out of the way.

The current plan is for a 2 ½ day meeting, to include a site visit to the new BSL4 lab—details to follow if this is part of the 2 ½ day agenda or an additional optional excursion.

We will be responsible for the travel and hotels of US participants; they will handle the expenses for the Chinese participants. I guess we will need to revisit the hotel meeting site costs depending upon where Zhiming suggests.

He liked the idea of a reception in the museum and had other suggestions for evening entertainment that we can discuss later.

Can we set up a conference call for early next week to discuss potential speakers? Please let us know a convenient time.

During the call, we need to discuss:

- Appropriate high level NAS participation to match the CAS vice-chair. I wonder if there is any flexibility in Diane's schedule. Alternatively, if she can make the following week, I could drop out.
- Greater detail of the proposed agenda (I told Pei Yong that we would have about half "hard science" talks and half operations/management/biosafety etc.). Ben, we need to be clear on the expectations of the sponsors.
- We are proposing that all talks be at a high level, appropriate for organizational leaders who deal primarily with policy issues—nothing "in the weeds".
- As we will have a number of CAS members, we need to include some NAS members as well. I mentioned Peter Palese but we will need others. Ben, how many speakers aside from you, Dave, me and Pei Yong can we support?
- We should include Tom Ksiazek if he's available.

Below are some suggested speakers where we might help out.

1. **Improving the public health response to disease outbreaks and issues associated with combating key diseases of concern to China and the U.S.**
  - Anti-viral countermeasures (strategy and R&D) Pei Yong Shi
  - Host-pathogen interaction (pathogenesis)
  - Combating vector borne disease (e.g. Zika and Dengue) Pei Yong Shi can give an overview of our institutional response to Zika,
  - Regulatory issues (maintaining reference collections/academic repositories)
  - Pathogen transfer (domestic and international)
  - Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment 'hospital room' in the lab vs. working with local hospital for care of a LAI patient outside the lab) Le Duc can relate UTMB approach
2. **Gain of function research, gene editing, targeting and delivery and other novel biotechnology**
3. **Biosafety, biosecurity and bioethics**

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training we are continuing to discuss collaborations with training programs with both Wuhan and Kunming and perhaps we will have a signed agreement to discuss by then.
- Laboratory leadership, culture and ethics Dave Franz

#### **4. Laboratory commissioning, construction and sustainment**

- Requirements for high containment labs in China and the U.S and discussion of recent projects (Possible presentation title: *"Being a good neighbor" lessons learned from Boston, UTMB and KSU*)
- Community relations and public communication (Possible presentation title: *High-containment labs in the community: Health, Safety and Public Relations*)

#### **5. Areas for Enhanced Cooperation on emerging Infections, laboratory safety, and global health security between China and the U.S.**

- Influenza, including avian influenza Peter Palese/Harbin speaker

Thanks, Jim

James W. Le Duc, Ph.D.  
 Director  
 Galveston National Laboratory  
 University of Texas Medical Branch  
 Galveston, TX 77555-0610  
 (t) 409-266-6500  
 (f) 409-266-6810  
 (m) (b)(6)

---

**From:** davidrf Franz@gmail.com  
**Sent:** Friday, February 10, 2017 10:46 AM  
**To:** LeDuc, James W.  
**Cc:** Rusek, Benjamin; Shi, Pei yong; Lowenthal, Micah; Mendoza, Imelda  
**Subject:** Re: Wuhan CAS-NAS mtg

Oh, too bad on Peggy. When we last spoke she seemed quite interested, but I assume something came up. I'm happy to check with David. Do you want me to go ahead? dave

Sent from my iPhone

On Feb 10, 2017, at 9:15 AM, LeDuc, James W. <jwleduc@UTMB.EDU> wrote:

I saw the note that Peggy Hamburg will not be able to join us. I wonder if we could get Dave Relman?

**From:** davidrf Franz@gmail.com [mailto:davidrf Franz@gmail.com]  
**Sent:** Friday, February 10, 2017 6:56 AM  
**To:** Rusek, Benjamin <BRusek@nas.edu>  
**Cc:** LeDuc, James W. <jwleduc@UTMB.EDU>; Shi, Pei yong <peshi@UTMB.EDU>; Lowenthal, Micah <mloventh@nas.edu>; Mendoza, Imelda <imendoza@UTMB.EDU>  
**Subject:** Re: Wuhan CAS-NAS mtg

All good. Just landed IAD from Delhi. Re call I have mid-day meeting tue and 9am minor procedure Tuesday, otherwise open schedule. Dartmouth and travel Thur and Friday so schedule pretty full. Dave

Sent from my iPhone

On Feb 9, 2017, at 3:23 PM, Rusek, Benjamin <BRusek@nas.edu> wrote:

Hi Jim,

I will contact Peggy now and have La Tasha contact the group about the con call.

Kind regard,

Benjamin J. Rusek  
The U.S. National Academy of Sciences  
1-202-334-3975

---

**From:** LeDuc, James W. [mailto:jwleduc@UTMB.EDU]  
**Sent:** Thursday, February 09, 2017 3:14 PM  
**To:** Rusek, Benjamin; Dave Franz (davidrf Franz@gmail.com)  
**Cc:** Shi, Pei yong; Lowenthal, Micah; Mendoza, Imelda  
**Subject:** RE: Wuhan CAS-NAS mtg

Ben, please go ahead and set up the call for next week. I just spoke to Tom K and I think that he's available—he's definitely interested and Zhiming is anxious to have him participate.

It would be great if we could get Peggy Hamburg to join us. We definitely need high-level participant to match the Chinese side.

Jim

**From:** Rusek, Benjamin [<mailto:BRusek@nas.edu>]  
**Sent:** Thursday, February 09, 2017 1:55 PM  
**To:** LeDuc, James W. <[jwleduc@UTMB.EDU](mailto:jwleduc@UTMB.EDU)>; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)) <[davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com)>  
**Cc:** Shi, Pei yong <[peshi@UTMB.EDU](mailto:peshi@UTMB.EDU)>; Lowenthal, Micah <[mloewenth@nas.edu](mailto:mloewenth@nas.edu)>  
**Subject:** RE: Wuhan CAS-NAS mtg

Greetings,

Fantastic work! Good to virtually meet you Dr. Shi. This is great progress. Your suggestions on Chinese participants are excellent. I am glad that you are in touch with Zhiming, it seems that folks are coming back on line in China after the new year holiday period. Hope to hear more from Zhiming about the proposed agenda and topic list we sent.

Jim your suggestions on meeting duration, location and the site visit sound very reasonable (thought that the visit might take place on the 3<sup>rd</sup> day).

Re hotel costs, we budgeted for the USG per diem rate in Wuhan (135 USD per night for hotel) but it can be higher if the rate includes things like airport pick up and/or breakfast.

Re # of speakers, we budgeted for 7 total participants for the U.S. but might be able to stretch it to 8 if we get decent prices on flights. U.S. participants discussed so far:

Participants:

Franz

Le Duc

Shi

Rusek (my flight is on hold from Oct trip).

Then maybe invite:

Ksiazek

Palese

Hamburg

1 additional person

Re expectations of the sponsors, half hard science talks and half operations/management/biosafety etc will work well.

Re con call, Happy to have La Tasha set this up for next week. I can also contact, Ksiazek, Palese, and Hamburg and see if they are available/interested.

Kind regards,

Benjamin J. Rusek

---

**From:** LeDuc, James W. [<mailto:jwleduc@UTMB.EDU>]  
**Sent:** Thursday, February 09, 2017 1:32 PM  
**To:** Rusek, Benjamin; Dave Franz ([davidrf Franz@gmail.com](mailto:davidrf Franz@gmail.com))  
**Cc:** Shi, Pei yong  
**Subject:** Wuhan CAS-NAS mtg  
**Importance:** High

Ben and Dave,

As mentioned previously, Pei Yong has agreed to serve on our organizing committee and I discussed the upcoming meeting with him, and he was then able to talk to Zhiming last night to get his initial thoughts on speakers, etc. The good news is that Zhiming remains very excited about the meeting and his goal is to engage with very senior Chinese leadership as participants. He proposes to invite the vice chairman of CAS, Ya Ping Zhang, as well as George Gao and Xu Jian Guo, a high-ranking leader of China CDC. He will also invite participants from Kunming, and the agriculture lab in Harbin. He envisions a small meeting on the order of about 30 senior officials for the core discussions. He will open up the presentations to a larger group of perhaps 100 total, but their participation would be significantly limited.

Zhiming is re-thinking the location of the meeting and is considering a luxury hotel in Wuhan as opposed to the lakeside retreat, since it is a bit out of the way.

The current plan is for a 2 ½ day meeting, to include a site visit to the new BSL4 lab—details to follow if this is part of the 2 ½ day agenda or an additional optional excursion.

We will be responsible for the travel and hotels of US participants; they will handle the expenses for the Chinese participants. I guess we will need to revisit the hotel meeting site costs depending upon where Zhiming suggests.

He liked the idea of a reception in the museum and had other suggestions for evening entertainment that we can discuss later.

Can we set up a conference call for early next week to discuss potential speakers? Please let us know a convenient time.

During the call, we need to discuss:

- Appropriate high level NAS participation to match the CAS vice-chair. I wonder if there is any flexibility in Diane's schedule. Alternatively, if she can make the following week, I could drop out.
- Greater detail of the proposed agenda (I told Pei Yong that we would have about half "hard science" talks and half operations/management/biosafety etc.). Ben, we need to be clear on the expectations of the sponsors.
- We are proposing that all talks be at a high level, appropriate for organizational leaders who deal primarily with policy issues—nothing "in the weeds".
- As we will have a number of CAS members, we need to include some NAS members as well. I mentioned Peter Palese but we will need others. Ben, how many speakers aside from you, Dave, me and Pei Yong can we support?

- We should include Tom Ksiazek if he's available.

Below are some suggested speakers where we might help out.

**1. Improving the public health response to disease outbreaks and issues associated with combating key diseases of concern to China and the U.S.**

- Anti-viral countermeasures (strategy and R&D) Pei Yong Shi
- Host-pathogen interaction (pathogenesis)
- Combating vector borne disease (e.g. Zika and Dengue) Pei Yong Shi can give an overview of our institutional response to Zika,
- Regulatory issues (maintaining reference collections/academic repositories)
- Pathogen transfer (domestic and international)
- Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment 'hospital room' in the lab vs. working with local hospital for care of a LAI patient outside the lab) Le Duc can relate UTMB approach

**2. Gain of function research, gene editing, targeting and delivery and other novel biotechnology**

**3. Biosafety, biosecurity and bioethics**

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training we are continuing to discuss collaborations with training programs with both Wuhan and Kunming and perhaps we will have a signed agreement to discuss by then.
- Laboratory leadership, culture and ethics Dave Franz

**4. Laboratory commissioning, construction and sustainment**

- Requirements for high containment labs in China and the U.S and discussion of recent projects (Possible presentation title: *"Being a good neighbor" lessons learned from Boston, UTMB and KSU*)
- Community relations and public communication (Possible presentation title: *High-containment labs in the community: Health, Safety and Public Relations*)

**5. Areas for Enhanced Cooperation on emerging Infections, laboratory safety, and global health security between China and the U.S.**

- Influenza, including avian influenza Peter Palese/Harbin speaker

Thanks, Jim

James W. Le Duc, Ph.D.  
 Director  
 Galveston National Laboratory  
 University of Texas Medical Branch  
 Galveston, TX 77555-0610  
 (t) 409-266-6500  
 (f) 409-266-6810



(m)

---

**From:** DURC Dissemination <DURC@LSW.NAS.EDU> on behalf of Lipkin, Ian W. <wil2001@CUMC.COLUMBIA.EDU>  
**Sent:** Thursday, February 23, 2017 7:20 AM  
**To:** DURC@LSW.NAS.EDU  
**Subject:** Re: Emailing: Inside the Chinese lab poised to study world's most dangerous pathogens Nature News & Comment.htm

In 2003 Josh Lederbergh and I invited CHEN Zhu to NYC to discuss opportunities for collaboration. Due to concerns about the development of this lab in Wuhan he was placed onto a no fly list by DHS and could not join us. We could have joined in the development of this lab. It's not too late to become engaged. I've visited Wuhan and have active collaborations with scientists in Wuhan through USAID/PREDICT and CAS. Gao is a first rate investigator. He and his colleagues are thoughtful and sincere.

Ian

On Feb 23, 2017, at 7:08 AM, Michael Hopmeier <[hopmeier@UNCONVENTIONAL-INC.COM](mailto:hopmeier@UNCONVENTIONAL-INC.COM)> wrote:

## Inside the Chinese lab poised to study world's most dangerous pathogens

Maximum-security biolab is part of plan to build network of BSL-4 facilities across China.

- [David Cyranoski](#)

22 February 2017 Updated:

1. [23 February 2017](#)

Wuhan, China

### Article tools

- [PDF](#)
- [Rights & Permissions](#)

<image001.jpg>

Wuhan Virology Institute

Hazard suits hang at the National Bio-safety Laboratory, Wuhan, the first lab on the Chinese mainland equipped for the highest level of biocontainment.

A laboratory in Wuhan is on the cusp of being cleared to work with the world's most dangerous pathogens. The move is part of a plan to build between five and seven biosafety level-4 (BSL-4)

labs across the Chinese mainland by 2025, and has generated much excitement, as well as some concerns.

Some scientists outside China worry about pathogens escaping, and the addition of a biological dimension to geopolitical tensions between China and other nations. But Chinese microbiologists are celebrating their entrance to the elite cadre empowered to wrestle with the world's greatest biological threats.

"It will offer more opportunities for Chinese researchers, and our contribution on the BSL-4-level pathogens will benefit the world," says George Gao, director of the Chinese Academy of Sciences Key Laboratory of Pathogenic Microbiology and Immunology in Beijing. There are already two BSL-4 labs in Taiwan, but the National Bio-safety Laboratory, Wuhan, would be the first on the Chinese mainland.

The lab was certified as meeting the standards and criteria of BSL-4 by the China National Accreditation Service for Conformity Assessment (CNAS) in January. The CNAS examined the lab's infrastructure, equipment and management, says a CNAS representative, paving the way for the Ministry of Health to give its approval. A representative from the ministry says it will move slowly and cautiously; if the assessment goes smoothly, it could approve the laboratory by the end of June.

BSL-4 is the highest level of biocontainment: its criteria include filtering air and treating water and waste before they leave the laboratory, and stipulating that researchers change clothes and shower before and after using lab facilities. Such labs are often controversial. The first BSL-4 lab in Japan was built in 1981, but operated with lower-risk pathogens until 2015, when safety concerns were finally overcome.

The expansion of BSL-4-lab networks in the United States and Europe over the past 15 years — with more than a dozen now in operation or under construction in each region — also met with resistance, including questions about the need for so many facilities.

"Viruses don't know borders."

The Wuhan lab cost 300 million yuan (US\$44 million), and to allay safety concerns it was built far above the flood plain and with the capacity to withstand a magnitude-7 earthquake, although the area has no history of strong earthquakes. It will focus on the control of emerging diseases, store purified viruses and act as a World Health Organization 'reference laboratory' linked to similar labs around the world. "It will be a key node in the global biosafety-lab network," says lab director Yuan Zhiming.

The Chinese Academy of Sciences approved the construction of a BSL-4 laboratory in 2003, and the epidemic of SARS (severe acute respiratory syndrome) around the same time lent the project momentum. The lab was designed and constructed with French assistance as part of a 2004 cooperative agreement on the prevention and control of emerging infectious diseases. But the complexity of the project, China's lack of experience, difficulty in maintaining funding and long government approval procedures meant that construction wasn't finished until the end of 2014.

The lab's first project will be to study the BSL-3 pathogen that causes Crimean-Congo haemorrhagic fever: a deadly tick-borne virus that affects livestock across the world, including in northwest China, and that can jump to people.

Future plans include studying the pathogen that causes SARS, which also doesn't require a BSL-4 lab, before moving on to Ebola and the West African Lassa virus, which do. Some one million Chinese people work in Africa; the country needs to be ready for any eventuality, says Yuan. "Viruses don't know borders."

Gao travelled to Sierra Leone during the recent Ebola outbreak, allowing his team to report the speed with which the virus mutated into new strains<sup>1</sup>. The Wuhan lab will give his group a chance to study how such viruses cause disease, and to develop treatments based on antibodies and small molecules, he says.

<image002.jpg>

Muyi Xiao for Nature

The central monitor room at China's National Bio-safety Laboratory.

The opportunities for international collaboration, meanwhile, will aid the genetic analysis and epidemiology of emergent diseases. "The world is facing more new emerging viruses, and we need more contribution from China," says Gao. In particular, the emergence of zoonotic viruses — those that jump to humans from animals, such as SARS or Ebola — is a concern, says Bruno Lina, director of the VirPath virology lab in Lyon, France.

Many staff from the Wuhan lab have been training at a BSL-4 lab in Lyon, which some scientists find reassuring. And the facility has already carried out a test-run using a low-risk virus.

But worries surround the Chinese lab, too. The SARS virus has escaped from high-level containment facilities in Beijing multiple times, notes Richard Ebright, a molecular biologist at Rutgers University in Piscataway, New Jersey. Tim Trevan, founder of CHROME Biosafety and Biosecurity Consulting in Damascus, Maryland, says that an open culture is important to keeping BSL-4 labs safe, and he questions how easy this will be in China, where society emphasizes hierarchy. "Diversity of viewpoint, flat structures where everyone feels free to speak up and openness of information are important," he says.

Yuan says that he has worked to address this issue with staff. "We tell them the most important thing is that they report what they have or haven't done," he says. And the lab's international collaborations will increase openness. "Transparency is the basis of the lab," he adds.

The plan to expand into a network heightens such concerns. One BSL-4 lab in Harbin is already awaiting accreditation; the next two are expected to be in Beijing and Kunming, the latter focused on using monkey models to study disease.

Lina says that China's size justifies this scale, and that the opportunity to combine BSL-4 research with an abundance of research monkeys — Chinese researchers face less red tape than those in the West when it comes to research on primates — could be powerful. "If you want to test vaccines or antivirals, you need a non-human primate model," says Lina.

But Ebright is not convinced of the need for more than one BSL-4 lab in mainland China. He suspects that the expansion there is a reaction to the networks in the United States and Europe, which he says are also unwarranted. He adds that governments will assume that such excess capacity is for the potential development of bioweapons.

“These facilities are inherently dual use,” he says. The prospect of ramping up opportunities to inject monkeys with pathogens also worries, rather than excites, him: “They can run, they can scratch, they can bite.”

Trevar says China’s investment in a BSL-4 lab may, above all, be a way to prove to the world that the nation is competitive. “It is a big status symbol in biology,” he says, “whether it’s a need or not.”

Journal name:

Nature

Volume:

542,

Pages:

399–400

Date published:

(23 February 2017)

DOI:

doi:10.1038/nature.2017.21487

- [Tweet](#) [Follow @NatureNews](#)

## Updates

Updated:

The name of the CNAS representative has been removed from this article on request.

## References

1. Tong, Y.-G. *et al.* Nature 524, 93–96 (2015).
  - [Article](#)
  - [PubMed](#)
  - [ChemPort](#)

## Related stories and links

From [nature.com](#)

- **Ebola spurs creation of Japan's first maximum-security biolab**

13 August 2015

- **European biosafety labs set to grow**

11 November 2009

- **Booming biosafety labs probed**

30 September 2009

- ***Nature* special: Ebola epidemic**

## Author information

### Author details

- **David Cyranoski**

David had worked in Japan for several years before moving into journalism with *Nature* in 2000. His varied employment history includes translation for a semiconductor-manufacturing equipment company and teaching history to foreign exchange students. In addition to covering the Asian-Pacific region, D...

© 2017 Macmillan Publishers Limited, part of Springer Nature. All Rights Reserved. partner of [AGORA](#), [HINARI](#), [OARE](#), [INASP](#), [CrossRef](#) and [COUNTER](#)

<image003.gif>

# NEWS IN FOCUS

**GENE EDITING** Verdict on bitter battle over who owns the rights to CRISPR **p.401**

**GEOPHYSICS** Giant crack in Antarctic ice shelf spotlights glaciology advances **p.402**

**BIOLOGY** The race to map the human body — one cell at a time **p.404**

**EPIGENETICS** Gene expression is facing a gold rush **p.406**



Hazard suits hang at the National Bio-safety Laboratory, Wuhan, the first lab on the Chinese mainland equipped for the highest level of biocontainment.

## INFECTIOUS DISEASE

# Inside China's pathogen lab

*Maximum-security biosafety facility nears approval, sparking excitement and concern.*

BY DAVID CYRANOSKI, WUHAN, CHINA

A laboratory in Wuhan is on the cusp of being cleared to work with the world's most dangerous pathogens. The move is part of a plan to build between five and seven biosafety level-4 (BSL-4) labs across the Chinese mainland by 2025, and has generated much excitement, as well as some concerns.

Some scientists outside China worry about pathogens escaping, and the addition of a biological dimension to geopolitical tensions between China and other nations. But Chinese

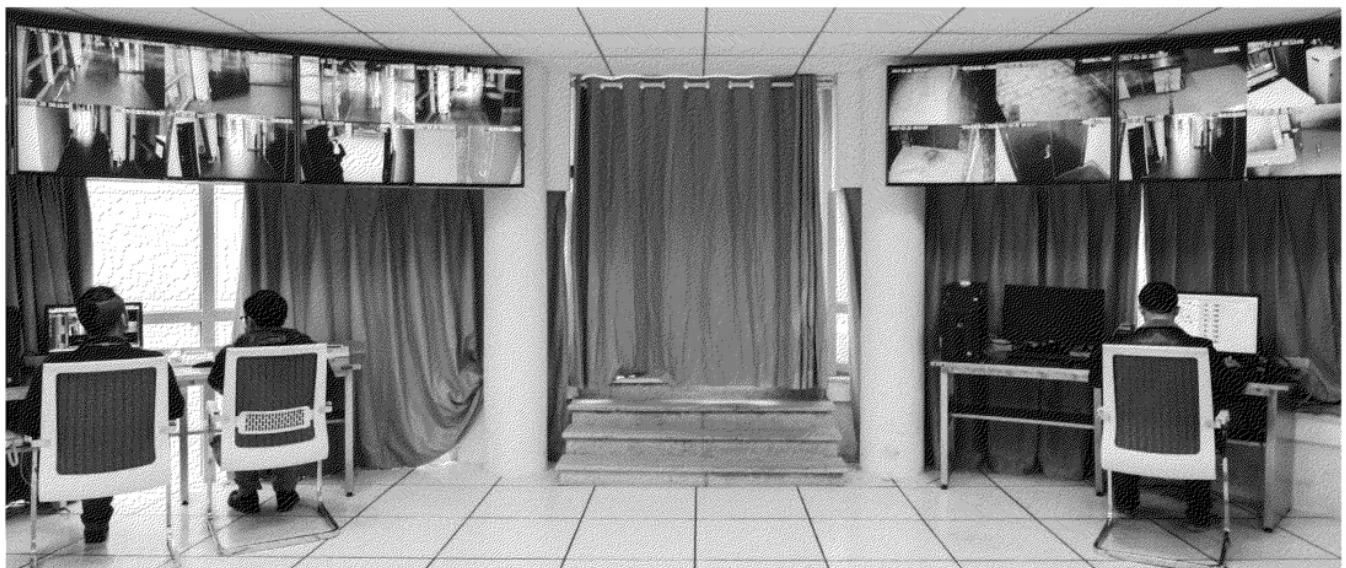
microbiologists are celebrating their entrance to the elite cadre empowered to wrestle with the world's greatest biological threats.

"It will offer more opportunities for Chinese researchers, and our contribution on the BSL-4-level pathogens will benefit the world," says George Gao, director of the Chinese Academy of Sciences Key Laboratory of Pathogenic Microbiology and Immunology in Beijing. There are already two BSL-4 labs in Taiwan, but the National Bio-safety Laboratory, Wuhan, would be the first on the Chinese mainland.

The lab was certified as meeting the standards and criteria of BSL-4 by the China National Accreditation Service for Conformity Assessment (CNAS) in January. The CNAS examined the lab's infrastructure, equipment and management, says a CNAS representative, paving the way for the Ministry of Health to give its approval. A representative from the ministry says it will move slowly and cautiously; if the assessment goes smoothly, it could approve the laboratory by the end of June.

BSL-4 is the highest level of biocontainment: its criteria include filtering air and treating ▶





MUTU XIAO FOR NATURE

The central monitor room at China's National Bio-safety Laboratory.

► water and waste before they leave the laboratory, and stipulating that researchers change clothes and shower before and after using lab facilities. Such labs are often controversial. The first BSL-4 lab in Japan was built in 1981, but operated with lower-risk pathogens until 2015, when safety concerns were finally overcome.

The expansion of BSL-4-lab networks in the United States and Europe over the past 15 years — with more than a dozen now in operation or under construction in each region — also met with resistance, including questions about the need for so many facilities.

The Wuhan lab cost 300 million yuan (US\$44 million), and to allay safety concerns it was built far above the flood plain and with the capacity to withstand a magnitude-7 earthquake, although the area has no history of strong earthquakes. It will focus on the control of emerging diseases, store purified viruses and act as a World Health Organization 'reference laboratory' linked to similar labs around the world. "It will be a key node in the global biosafety-lab network," says lab director Yuan Zhiming.

The Chinese Academy of Sciences approved the construction of a BSL-4 laboratory in 2003, and the epidemic of SARS (severe acute respiratory syndrome) around the same time lent the project momentum. The lab was designed and constructed with French assistance as part of a 2004 cooperative agreement on the prevention and control of emerging infectious diseases. But the complexity of the project, China's lack of experience, difficulty in maintaining funding and long government approval procedures meant that construction wasn't finished until the end of 2014.

The lab's first project will be to study the BSL-3 pathogen that causes Crimean-Congo haemorrhagic fever: a deadly tick-borne virus that affects livestock across the world, including in northwest China, and that can jump to people.

Future plans include studying the pathogen that causes SARS, which also doesn't require a BSL-4 lab, before moving on to Ebola and the West African Lassa virus, which do. Some one million Chinese people work in Africa; the country needs to be ready for any eventuality, says Yuan. "Viruses don't know borders."

Gao travelled to Sierra Leone during the recent Ebola outbreak, allowing his team to report the speed with which the virus mutated into new strains (Y.-G. Tong *et al. Nature* 524, 93–96; 2015). The Wuhan lab will give his group a chance to study how such viruses cause disease, and to develop treatments based on antibodies and small molecules, he says.

### **"Viruses don't know borders."**

The opportunities for international collaboration, meanwhile, will aid the genetic analysis and epidemiology of emergent diseases. "The world is facing more new emerging viruses, and we need more contribution from China," says Gao. In particular, the emergence of zoonotic viruses — those that jump to humans from animals, such as SARS or Ebola — is a concern, says Bruno Lina, director of the VirPath virology lab in Lyon, France.

Many staff from the Wuhan lab have been training at a BSL-4 lab in Lyon, which some scientists find reassuring. And the facility has already carried out a test-run using a low-risk virus.

But worries surround the Chinese lab, too. The SARS virus has escaped from high-level containment facilities in Beijing multiple times, notes Richard Ebright, a molecular biologist at Rutgers University in Piscataway, New Jersey. Tim Trevan, founder of CHROME Biosafety and Biosecurity Consulting in Damascus, Maryland, says that an open culture is important to keeping BSL-4 labs safe, and he questions how easy this will be in

China, where society emphasizes hierarchy. "Diversity of viewpoint, flat structures where everyone feels free to speak up and openness of information are important," he says.

Yuan says that he has worked to address this issue with staff. "We tell them the most important thing is that they report what they have or haven't done," he says. And the lab's international collaborations will increase openness. "Transparency is the basis of the lab," he adds.

The plan to expand into a network heightens such concerns. One BSL-4 lab in Harbin is already awaiting accreditation; the next two are expected to be in Beijing and Kunming, the latter focused on using monkey models to study disease.

Lina says that China's size justifies this scale, and that the opportunity to combine BSL-4 research with an abundance of research monkeys — Chinese researchers face less red tape than those in the West when it comes to research on primates — could be powerful. "If you want to test vaccines or antivirals, you need a non-human primate model," says Lina.

But Ebright is not convinced of the need for more than one BSL-4 lab in mainland China. He suspects that the expansion there is a reaction to the networks in the United States and Europe, which he says are also unwarranted. He adds that governments will assume that such excess capacity is for the potential development of bioweapons.

"These facilities are inherently dual use," he says. The prospect of ramping up opportunities to inject monkeys with pathogens also worries, rather than excites, him: "They can run, they can scratch, they can bite."

Trevan says China's investment in a BSL-4 lab may, above all, be a way to prove to the world that the nation is competitive. "It is a big status symbol in biology," he says, "whether it's a need or not." ■



**UPDATE**

The name of the CNAS representative has been removed from this article on request.

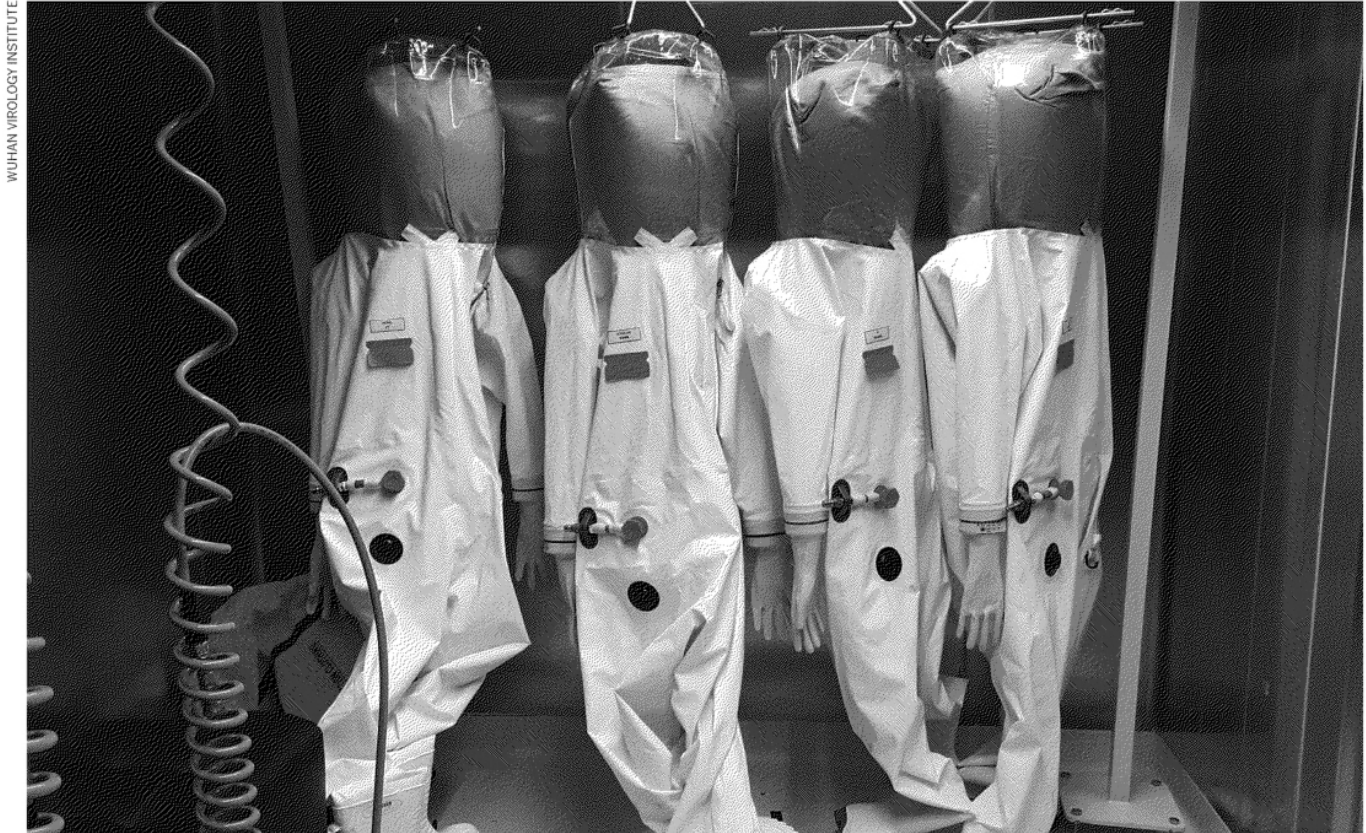
# NEWS IN FOCUS

**GENE EDITING** Verdict on bitter battle over who owns the rights to CRISPR **p.401**

**GEOPHYSICS** Giant crack in Antarctic ice shelf spotlights glaciology advances **p.402**

**BIOLOGY** The race to map the human body — one cell at a time **p.404**

**EPIGENETICS** Gene expression is facing a gold rush **p.406**



Hazard suits hang at the National Bio-safety Laboratory, Wuhan, the first lab on the Chinese mainland equipped for the highest level of biocontainment.

## INFECTIOUS DISEASE

# Inside China's pathogen lab

*Maximum-security biosafety facility nears approval, sparking excitement and concern.*

BY DAVID CYRANOSKI, WUHAN, CHINA

A laboratory in Wuhan is on the cusp of being cleared to work with the world's most dangerous pathogens. The move is part of a plan to build between five and seven biosafety level-4 (BSL-4) labs across the Chinese mainland by 2025, and has generated much excitement, as well as some concerns.

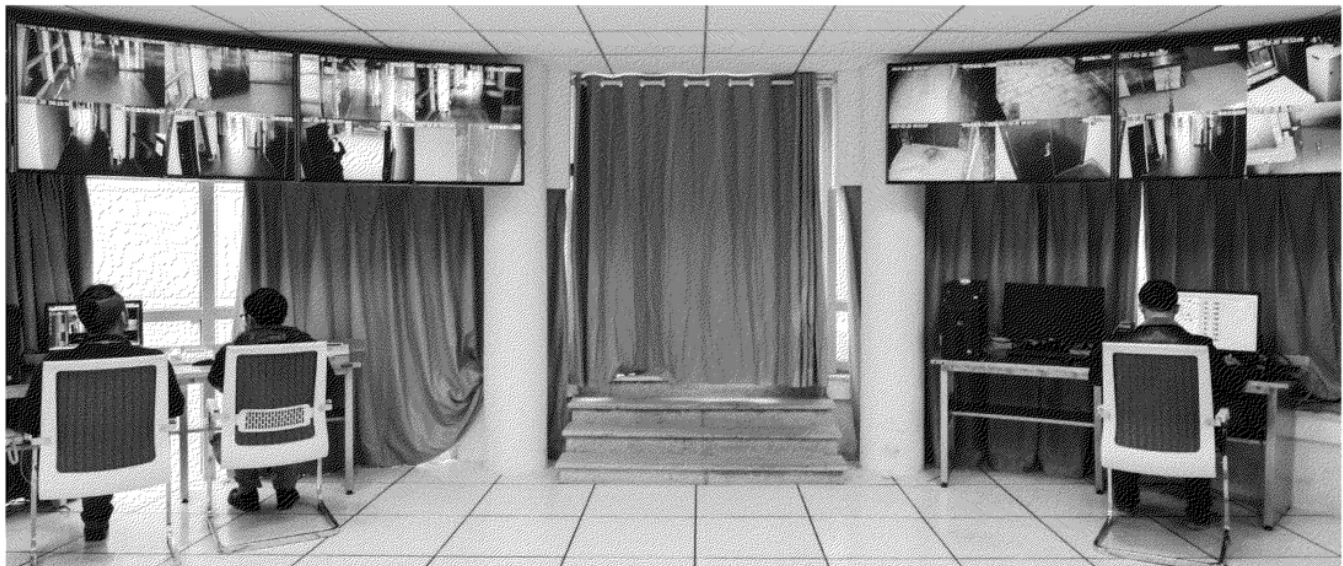
Some scientists outside China worry about pathogens escaping, and the addition of a biological dimension to geopolitical tensions between China and other nations. But Chinese

microbiologists are celebrating their entrance to the elite cadre empowered to wrestle with the world's greatest biological threats.

"It will offer more opportunities for Chinese researchers, and our contribution on the BSL-4-level pathogens will benefit the world," says George Gao, director of the Chinese Academy of Sciences Key Laboratory of Pathogenic Microbiology and Immunology in Beijing. There are already two BSL-4 labs in Taiwan, but the National Bio-safety Laboratory, Wuhan, would be the first on the Chinese mainland.

The lab was certified as meeting the standards and criteria of BSL-4 by the China National Accreditation Service for Conformity Assessment (CNAS) in January. The CNAS examined the lab's infrastructure, equipment and management, says a CNAS representative, paving the way for the Ministry of Health to give its approval. A representative from the ministry says it will move slowly and cautiously; if the assessment goes smoothly, it could approve the laboratory by the end of June.

BSL-4 is the highest level of biocontainment: its criteria include filtering air and treating ▶



MUTU XIAO FOR NATURE

The central monitor room at China's National Bio-safety Laboratory.

► water and waste before they leave the laboratory, and stipulating that researchers change clothes and shower before and after using lab facilities. Such labs are often controversial. The first BSL-4 lab in Japan was built in 1981, but operated with lower-risk pathogens until 2015, when safety concerns were finally overcome.

The expansion of BSL-4-lab networks in the United States and Europe over the past 15 years — with more than a dozen now in operation or under construction in each region — also met with resistance, including questions about the need for so many facilities.

The Wuhan lab cost 300 million yuan (US\$44 million), and to allay safety concerns it was built far above the flood plain and with the capacity to withstand a magnitude-7 earthquake, although the area has no history of strong earthquakes. It will focus on the control of emerging diseases, store purified viruses and act as a World Health Organization 'reference laboratory' linked to similar labs around the world. "It will be a key node in the global biosafety-lab network," says lab director Yuan Zhiming.

The Chinese Academy of Sciences approved the construction of a BSL-4 laboratory in 2003, and the epidemic of SARS (severe acute respiratory syndrome) around the same time lent the project momentum. The lab was designed and constructed with French assistance as part of a 2004 cooperative agreement on the prevention and control of emerging infectious diseases. But the complexity of the project, China's lack of experience, difficulty in maintaining funding and long government approval procedures meant that construction wasn't finished until the end of 2014.

The lab's first project will be to study the BSL-3 pathogen that causes Crimean-Congo haemorrhagic fever: a deadly tick-borne virus that affects livestock across the world, including in northwest China, and that can jump to people.

Future plans include studying the pathogen that causes SARS, which also doesn't require a BSL-4 lab, before moving on to Ebola and the West African Lassa virus, which do. Some one million Chinese people work in Africa; the country needs to be ready for any eventuality, says Yuan. "Viruses don't know borders."

Gao travelled to Sierra Leone during the recent Ebola outbreak, allowing his team to report the speed with which the virus mutated into new strains (Y.-G. Tong *et al. Nature* 524, 93–96; 2015). The Wuhan lab will give his group a chance to study how such viruses cause disease, and to develop treatments based on antibodies and small molecules, he says.

### **"Viruses don't know borders."**

The opportunities for international collaboration, meanwhile, will aid the genetic analysis and epidemiology of emergent diseases. "The world is facing more new emerging viruses, and we need more contribution from China," says Gao. In particular, the emergence of zoonotic viruses — those that jump to humans from animals, such as SARS or Ebola — is a concern, says Bruno Lina, director of the VirPath virology lab in Lyon, France.

Many staff from the Wuhan lab have been training at a BSL-4 lab in Lyon, which some scientists find reassuring. And the facility has already carried out a test-run using a low-risk virus.

But worries surround the Chinese lab, too. The SARS virus has escaped from high-level containment facilities in Beijing multiple times, notes Richard Ebright, a molecular biologist at Rutgers University in Piscataway, New Jersey. Tim Trevan, founder of CHROME Biosafety and Biosecurity Consulting in Damascus, Maryland, says that an open culture is important to keeping BSL-4 labs safe, and he questions how easy this will be in

China, where society emphasizes hierarchy. "Diversity of viewpoint, flat structures where everyone feels free to speak up and openness of information are important," he says.

Yuan says that he has worked to address this issue with staff. "We tell them the most important thing is that they report what they have or haven't done," he says. And the lab's international collaborations will increase openness. "Transparency is the basis of the lab," he adds.

The plan to expand into a network heightens such concerns. One BSL-4 lab in Harbin is already awaiting accreditation; the next two are expected to be in Beijing and Kunming, the latter focused on using monkey models to study disease.

Lina says that China's size justifies this scale, and that the opportunity to combine BSL-4 research with an abundance of research monkeys — Chinese researchers face less red tape than those in the West when it comes to research on primates — could be powerful. "If you want to test vaccines or antivirals, you need a non-human primate model," says Lina.

But Ebright is not convinced of the need for more than one BSL-4 lab in mainland China. He suspects that the expansion there is a reaction to the networks in the United States and Europe, which he says are also unwarranted. He adds that governments will assume that such excess capacity is for the potential development of bioweapons.

"These facilities are inherently dual use," he says. The prospect of ramping up opportunities to inject monkeys with pathogens also worries, rather than excites, him: "They can run, they can scratch, they can bite."

Trevan says China's investment in a BSL-4 lab may, above all, be a way to prove to the world that the nation is competitive. "It is a big status symbol in biology," he says, "whether it's a need or not." ■

**UPDATE**

The name of the CNAS representative has been removed from this article on request.



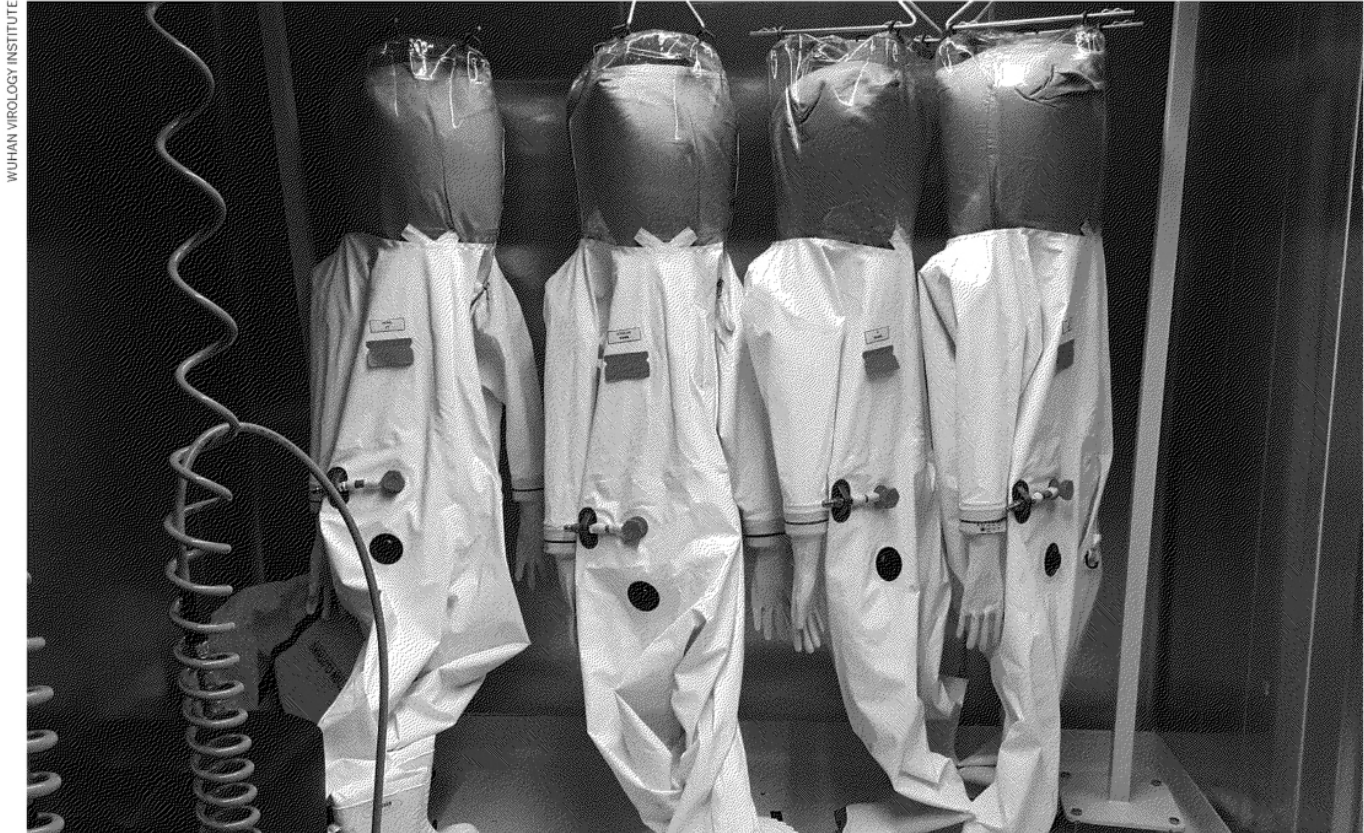
# NEWS IN FOCUS

**GENE EDITING** Verdict on bitter battle over who owns the rights to CRISPR **p.401**

**GEOPHYSICS** Giant crack in Antarctic ice shelf spotlights glaciology advances **p.402**

**BIOLOGY** The race to map the human body — one cell at a time **p.404**

**EPIGENETICS** Gene expression is facing a gold rush **p.406**



Hazard suits hang at the National Bio-safety Laboratory, Wuhan, the first lab on the Chinese mainland equipped for the highest level of biocontainment.

## INFECTIOUS DISEASE

# Inside China's pathogen lab

*Maximum-security biosafety facility nears approval, sparking excitement and concern.*

BY DAVID CYRANOSKI, WUHAN, CHINA

A laboratory in Wuhan is on the cusp of being cleared to work with the world's most dangerous pathogens. The move is part of a plan to build between five and seven biosafety level-4 (BSL-4) labs across the Chinese mainland by 2025, and has generated much excitement, as well as some concerns.

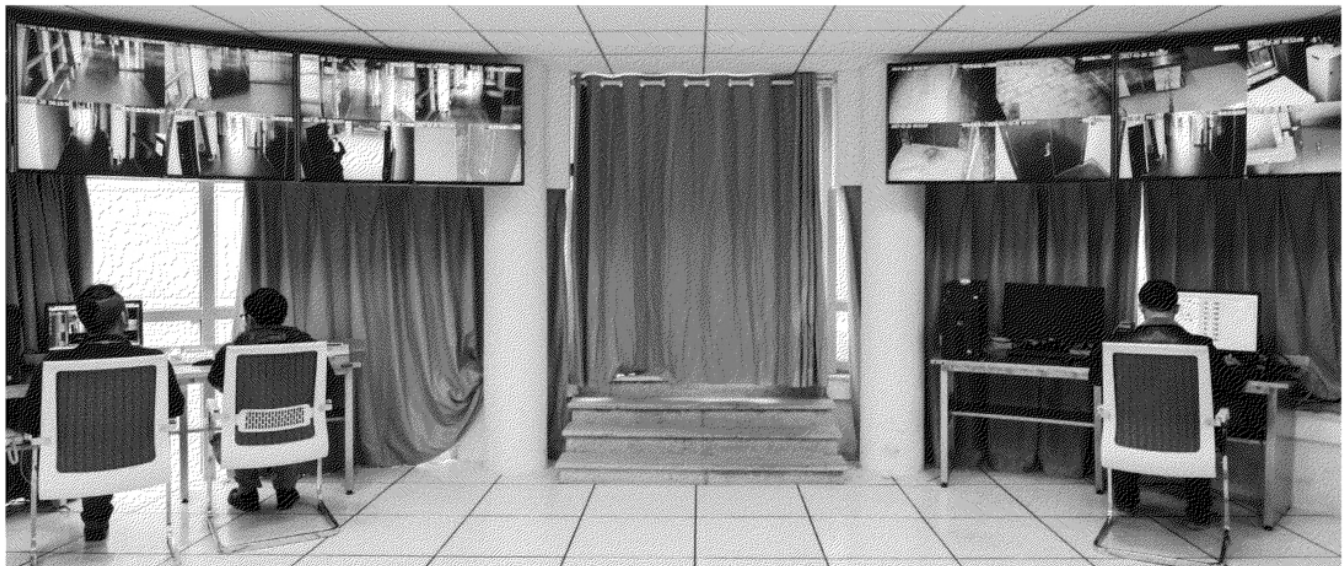
Some scientists outside China worry about pathogens escaping, and the addition of a biological dimension to geopolitical tensions between China and other nations. But Chinese

microbiologists are celebrating their entrance to the elite cadre empowered to wrestle with the world's greatest biological threats.

"It will offer more opportunities for Chinese researchers, and our contribution on the BSL-4-level pathogens will benefit the world," says George Gao, director of the Chinese Academy of Sciences Key Laboratory of Pathogenic Microbiology and Immunology in Beijing. There are already two BSL-4 labs in Taiwan, but the National Bio-safety Laboratory, Wuhan, would be the first on the Chinese mainland.

The lab was certified as meeting the standards and criteria of BSL-4 by the China National Accreditation Service for Conformity Assessment (CNAS) in January. The CNAS examined the lab's infrastructure, equipment and management, says a CNAS representative, paving the way for the Ministry of Health to give its approval. A representative from the ministry says it will move slowly and cautiously; if the assessment goes smoothly, it could approve the laboratory by the end of June.

BSL-4 is the highest level of biocontainment: its criteria include filtering air and treating ▶



MUTU XIAO FOR NATURE

The central monitor room at China's National Bio-safety Laboratory.

► water and waste before they leave the laboratory, and stipulating that researchers change clothes and shower before and after using lab facilities. Such labs are often controversial. The first BSL-4 lab in Japan was built in 1981, but operated with lower-risk pathogens until 2015, when safety concerns were finally overcome.

The expansion of BSL-4-lab networks in the United States and Europe over the past 15 years — with more than a dozen now in operation or under construction in each region — also met with resistance, including questions about the need for so many facilities.

The Wuhan lab cost 300 million yuan (US\$44 million), and to allay safety concerns it was built far above the flood plain and with the capacity to withstand a magnitude-7 earthquake, although the area has no history of strong earthquakes. It will focus on the control of emerging diseases, store purified viruses and act as a World Health Organization 'reference laboratory' linked to similar labs around the world. "It will be a key node in the global biosafety-lab network," says lab director Yuan Zhiming.

The Chinese Academy of Sciences approved the construction of a BSL-4 laboratory in 2003, and the epidemic of SARS (severe acute respiratory syndrome) around the same time lent the project momentum. The lab was designed and constructed with French assistance as part of a 2004 cooperative agreement on the prevention and control of emerging infectious diseases. But the complexity of the project, China's lack of experience, difficulty in maintaining funding and long government approval procedures meant that construction wasn't finished until the end of 2014.

The lab's first project will be to study the BSL-3 pathogen that causes Crimean-Congo haemorrhagic fever: a deadly tick-borne virus that affects livestock across the world, including in northwest China, and that can jump to people.

Future plans include studying the pathogen that causes SARS, which also doesn't require a BSL-4 lab, before moving on to Ebola and the West African Lassa virus, which do. Some one million Chinese people work in Africa; the country needs to be ready for any eventuality, says Yuan. "Viruses don't know borders."

Gao travelled to Sierra Leone during the recent Ebola outbreak, allowing his team to report the speed with which the virus mutated into new strains (Y.-G. Tong *et al. Nature* 524, 93–96; 2015). The Wuhan lab will give his group a chance to study how such viruses cause disease, and to develop treatments based on antibodies and small molecules, he says.

### **"Viruses don't know borders."**

The opportunities for international collaboration, meanwhile, will aid the genetic analysis and epidemiology of emergent diseases. "The world is facing more new emerging viruses, and we need more contribution from China," says Gao. In particular, the emergence of zoonotic viruses — those that jump to humans from animals, such as SARS or Ebola — is a concern, says Bruno Lina, director of the VirPath virology lab in Lyon, France.

Many staff from the Wuhan lab have been training at a BSL-4 lab in Lyon, which some scientists find reassuring. And the facility has already carried out a test-run using a low-risk virus.

But worries surround the Chinese lab, too. The SARS virus has escaped from high-level containment facilities in Beijing multiple times, notes Richard Ebright, a molecular biologist at Rutgers University in Piscataway, New Jersey. Tim Trevan, founder of CHROME Biosafety and Biosecurity Consulting in Damascus, Maryland, says that an open culture is important to keeping BSL-4 labs safe, and he questions how easy this will be in

China, where society emphasizes hierarchy. "Diversity of viewpoint, flat structures where everyone feels free to speak up and openness of information are important," he says.

Yuan says that he has worked to address this issue with staff. "We tell them the most important thing is that they report what they have or haven't done," he says. And the lab's international collaborations will increase openness. "Transparency is the basis of the lab," he adds.

The plan to expand into a network heightens such concerns. One BSL-4 lab in Harbin is already awaiting accreditation; the next two are expected to be in Beijing and Kunming, the latter focused on using monkey models to study disease.

Lina says that China's size justifies this scale, and that the opportunity to combine BSL-4 research with an abundance of research monkeys — Chinese researchers face less red tape than those in the West when it comes to research on primates — could be powerful. "If you want to test vaccines or antivirals, you need a non-human primate model," says Lina.

But Ebright is not convinced of the need for more than one BSL-4 lab in mainland China. He suspects that the expansion there is a reaction to the networks in the United States and Europe, which he says are also unwarranted. He adds that governments will assume that such excess capacity is for the potential development of bioweapons.

"These facilities are inherently dual use," he says. The prospect of ramping up opportunities to inject monkeys with pathogens also worries, rather than excites, him: "They can run, they can scratch, they can bite."

Trevan says China's investment in a BSL-4 lab may, above all, be a way to prove to the world that the nation is competitive. "It is a big status symbol in biology," he says, "whether it's a need or not." ■

**UPDATE**

The name of the CNAS representative has been removed from this article on request.

# **The second Sino – US new infectious disease, laboratory safety and global health and safety challenges seminar**

## **Second China-US Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security**

**(17–19 May 2017, Wuhan, China)**

In order to further strengthen academic exchanges and cooperation between the two countries in related fields of researchers, the second Sino-US emerging infectious diseases, laboratory safety and security challenges in global health seminar will be held 17–19 May 2017 in Wuhan, Hubei. The meeting will focus on biosafety laboratory construction, innovative biotechnology, new infectious disease prevention and control, biosecurity and bioethics and other issues to discuss. Through the collection of China and the United States in the relevant areas of outstanding scientific and technological achievements report, reflecting the latest research progress, timely communication and understanding of the global health and safety areas of new situations and new problems, play a Sino-US cooperation and joint research advantages, To respond to new outbreaks of infectious diseases, to ensure laboratory safety and global health and safety, and contribute to the cause of China and the United States and even human health.

**organizer:** Chinese Academy of Sciences, American Academy of Sciences

**organizer:** Wuhan Institute of Virology, Chinese Academy of Sciences  
Hubei Province and Wuhan Institute of Microbiology

**Chairman of the meeting:** Yuan Zhiming (Wuhan Institute of Virology, Chinese Academy of Sciences, researcher)

**Conference Organizing Committee:** David R. Franz (US Army Research Institute of Infectious Diseases, Professor)

James LeDuc (University of Texas, Galveston National Laboratory, Professor)  
Shi Peiyong (Professor, University of Texas, USA)  
Benjamin Rusek (American Academy of Sciences, Associate Professor)  
Chen Xinwen (Wuhan Institute of Virology, Chinese Academy of Sciences, director)  
Wang Yanyi (Wuhan Institute of Virology, Chinese Academy of Sciences, deputy director)  
Shi Zhengli (Wuhan Institute of Virology, Chinese Academy of Sciences, China)



**meeting place:** Wuhan, Hubei

**Meeting in the** General Assembly Report, Panel Discussion

**form of:**

**Conference** English

**Language:**

**Meeting size:** 100 people

**Meeting agenda:** 1. Acquired function, gene editing, gene targeting and gene delivery, as well as other innovative biotechnology Gain of function research, gene editing, targeting and delivery and other novel biotechnology

2. Emerging infectious diseases and global public health security

Emerging infectious diseases and global health security

3. Emergency response to public health

Public health response to outbreaks and issues

4. High-level

biosafety laboratory: construction, commissioning and operation and maintenance High-level biosafety Laboratory: construction, Commissioning and sustainment

5. Biosecurity, biosecurity and bioethics

Biosafety, biosecurity and bioethics

**Invited guest** Linda Saif (The Ohio State University, academician)

(US) David Relman (Stanford University School of Medicine, Academy of Sciences, Professor)

James W. Le Duc (University of Texas at Galveston National Laboratory, Professor)

Thomas Ksiazek (University of Texas at Galveston National Laboratory, Professor)

Ruth Berkelman (Emory University, Professor)

David R. Franz (US Army Research Institute of Infectious Diseases, Professor)

Benjamin J. Rusek (American Academy of Sciences, Associate Professor)

Shi Peiyong (Professor, University of Texas, USA)

David Swayne (USDA Southeast Poultry Research Laboratory, Director)

**Invited guest** Zhang yaping (Chinese Academy of Sciences)

(Chinese Step high (Chinese Academy of Agricultural Sciences Harbin side) Veterinary Research Institute, researcher)

Wu Dongli (Harbin Institute of Veterinary Medicine, Chinese Academy of Agricultural Sciences, researcher)

Chen Huilan (Harbin Institute of Veterinary Medicine, Chinese Academy of Agricultural Sciences, researcher)

Hu Yunzhang (Researcher, Institute of Medical Biology, Chinese Academy of Medical Sciences)

Zhai Peijun (China National Accreditation Board for Conformity Assessment, Approved Director)

Yuan Yingjin (Tianjin University, Vice President)

Wei Wensheng (Peking University, Professor)

high Fu (Institute of Microbiology, Chinese Academy of Sciences, Academician)

Shi Zhengli (Wuhan Institute of Virology, Chinese Academy of Sciences, China)

Liang Meifang (Chinese Center for Disease Control and Prevention, Chinese Academy of Disease Control and Prevention)

Chen Wei (Institute of Biotechnology, Academy of Military Medical Sciences, Director)

Zuo Jianping (Shanghai Institute of Materia Medica, Chinese Academy of Sciences)

Zheng Yongtang (Kunming Institute of Zoology, Chinese Academy of Sciences)

Gong Rui (Institute of Wuhan Institute of Virology, Chinese Academy of Sciences)

Yan Jinghua (Institute of Microbiology, Chinese Academy of Sciences, researcher,)

Xu Jianguo (Chinese Center for Disease Control and Prevention,  
Chinese Academy of Infectious Diseases)

Yuan Zhiming (Wuhan Institute of Virology, Chinese Academy of  
Sciences)

Wei Strong (Chinese Center for Disease Control and Prevention,  
deputy director of laboratory management)

Lu Jiahai (Professor, School of Medicine, Sun Yat-sen University)  
Process (Tsinghua University, researcher)

Qin Chengfeng (Chinese Academy of Military Medical Sciences,  
Professor)

Liu Longding (Institute of Medical Biology, Chinese Academy of  
Medical Sciences, China)

HU Chapter (Institute of Medical Biology, Chinese Academy of  
Medical Sciences, researcher)

#### Meeting Schedule:

**2017 Nian 5 Yue 16 Ri (Xingqi Er)**

19:00-21:00 VIP Dinner

**2017 Nian 5 Yue 17 Ri (Xing Qisan)**

09:00-10:00 representatives of both speech

China: Zhang Yaping (CAS)

Director/Welcome Remarks

**US: Introduction and welcome from NAS - Linda Saif**(The Ohio State University, academician)  
(5-10 min)

**Introduction and strategic overview from NAM - David Relman** (Stanford University  
School of Medicine, Academy of Sciences)(10-15 min)

**P4 operation and sustainability - James LeDuc**(Galveston National Laboratory,  
University of Texas professor)(10-15min)

10:00-10:30: Coffee break and group photo

Topic 1: Acquired function, gene editing, gene targeting and gene delivery, as well as  
other innovative biotechnology

-Thoughts on Gain of function research, gene editing, targeting and delivery and other novel  
biotechnology

-the recent advances in technology and their applications

10:30-10:50 -Yuan Ying Jin (Tianjin University, Vice-Chancellor)

10:50-11:10 - Chen Hua-lan (Chinese Academy of Agricultural Sciences, Harbin Veterinary Research Institute, researcher)

11:10-11:30 - Wei Wensheng (Peking University professor)

11:30-11:50 - Gene editing and advances in synthetic biology: challenges and opportunities - David Relman (Stanford University, Professor)

11:50-12:20 - Gain-of-Function Research - TBD - possibly Ruth Berkelman (Emory University, Professor)

- David R. Franz (US Army Research Institute of Infectious Diseases, Professor)

- Or Adolfo Garcia Sastre (Mount Sinai School of Medicine, Professor)

12:30-13:30 Lunch

Theme 2: emerging infectious diseases and global public health security

-Collaborating on influenza, including avian influenza

-Host-pathogen interaction (pathogenesis)

13:30-13:50 - High Fu (Chinese Academy of Sciences Institute of Microbiology, Academy of Sciences)

13:50-14:10 - Lujia Hai (School of Medicine, Professor)

14:10-14:30 Danzheng Li (Wuhan Institute of Virology, Chinese Academy of Sciences, researcher)

14:30-14:50 - Beammaryl (China CDC viral disease Control and Prevention, researchers)

14:50-15:10: Coffee Break

15:10-15:30 Collaborating on Influenza, including avian influenza - TBD - possibly David Swayne (USDA Southeast Poultry Research Laboratory, Director)

15:30-15:50 Coronaviruses and other pathogens of agricultural and human health importance - Linda Saif (The Ohio State University, academician)

15:50-16:10 Vector-borne diseases - Pei-Yong Shi (University of Texas professor)

16:10-16:30 - Cheng Gong (Tsinghua University, researcher)

16:30-16:50 - Qincheng Feng (Chinese Military Academy of Medical Sciences, Professor)

16:50-17:50 Round table discussion, panel discussion

18:30-20:30 Dinner

**2017 Nian 5 Yue 18 Ri (Xingqi Si)**

Theme 3: Emerging infectious diseases and public health emergency response

-Anti-virus twenty (strategy and R & D)

-Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment hospital room 'in the lab vs. working with local hospital for care of a LAI patient outside

the lab

09: 00-09: 20 - **Chen Wei** (Biotechnology Academy of Military Medical Sciences, Director)

09: 20-09: 50 - **Left Jianping** (Shanghai Institute of Materia Medica Chinese Academy of Sciences, researcher)

09: 50-10: 10 - **Cheng Yung-Tang** (Kunming Institute of Zoology, Chinese Academy of Sciences, researcher)

10: 10-10: 30 Coffee Break

10: 30-10: 50 - **Gong Rui** (Wuhan Institute of Virology, Chinese Academy of Sciences, researcher)

- **Yan Jinghua** (Institute of Microbiology, researcher, and Gong Rui alternatively)

10: 50-11: 10 - Anti-viral countermeasures (strategy and R & D), Discovery and development of antiviral countermeasures - **Pei-Yong Shi** (University of Texas professor)

11: 10-11: 30 - Improving the laboratory 's role in emergency health response, Communications during crisis - **James Le Duc** (Galveston National Laboratory, University of Texas professor)

11: 30-13: 30 Lunch

Topic 4: high-level biosafety laboratory: construction, commissioning, operation and maintenance

- Requirements for high containment labs in China and the US and discussion of recent projects

- Community relations and public communication

- Should biocontainment labs have clinical facilities?

- Biocontainment maintenance and operations / Outbreak response / Importance of reference collections and reagents;

13: 30-13: 50 - **Wu East** (Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences, researcher)

13: 50-14: 10 - **HU Chapter** (Institute of Medical Biology, Chinese Academy of Medical Sciences, researcher)

14: 10-14: 30 **Dipei Jun** (China National Accreditation Board, the Director approved four)

14: 30-14: 50 Technical aspects of high-containment lab sustainability: challenges of maintaining a maximum containment laboratory: The GNL experience - **James Le Duc** ( University of Texas at Galveston National Laboratory, Professor)

Regulatory issues, pathogen transfers (maintaining reference collections / academic repositories) - **Thomas Ksiazek** (University of Texas at Galveston National Laboratory, Professor)

14: 50-15: 10 Coffee Break

Topic 5: biosafety, biosecurity and bioethics

- New technology for laboratory biological risk management

- improve response to incidents at the lab (fire, police, environment release and paramedic)

- Improving biosafety and biosecurity training

- Laboratory leadership, culture and ethics

15: 10: 15: 30-- Xu Jianguo (China CDC infectious diseases, academician)

15:30: 15: 50 - Yuan Zhiming (Wuhan Institute of Virology, Chinese Academy of Sciences, researcher)

15: 50-16: 10 - Wei Strong (Chinese Center for Disease Control and Prevention, Laboratory Management Deputy Director)

16: 10-16: 30 Biocontainment maintenance and operations and UTMB training programs in Wuhan and Kunming - Thomas Ksiazek (University of Texas at Galveston National Laboratory, Professor)

16: 30-16: 50 Leadership and culture of responsibility - David Franz (US Army Research Institute of Infectious Diseases, Professor)

16: 50-17: 50 Round table discussion group discussion

18: 30-20: 30 Dinner

**2017 Nian 5 Yue 19 Ri (Xing Qiwu)**

(1) visit Wuhan P4 laboratory

List of US personnel:

David Franz

Thomas Ksiazek

James Le Duc

Pei-Yong Shi

David Relman

Linda Saif

Ben Rusek

Ruth Berkelman (TBD)

David Swayne (TBD)

(2) or visit the Hubei Provincial Museum Wuhan Botanical Garden

**Second China-U.S. Workshop on the Challenges of Emerging Infections,  
Laboratory Safety and Global Health Security  
(May 17-19 2017, Wuhan, China)**

In order to further enhance academic exchanges and cooperation between China and the United States, Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security will be held on May 17-19, 2017 in Wuhan, China. This workshop will mainly focus on the biosafety laboratory construction, innovative biotechnology, prevention on emerging infectious diseases, biosafety and bioethics. By gathering extraordinary reports on scientific and technological achievements, and discussing the current development on related studies, the participants from China and the United States can communicate and get further understanding on the new issues that occur in field of global health biosafety. Under this condition, this workshop aims at utilizing the advantages of China-U.S. cooperation and collaboration for responding to emerging infectious diseases more positively and guarantee laboratory and global health biosafety, so as to make more contributions to medical industry and human healthy.

<b>Organizers</b>	National Academy of Sciences Chinese Academy of Sciences Wuhan Institute of Virology, CAS Hubei Society for Microbiology
<b>Chairs</b>	David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases) Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Committee</b>	James LeDuc (Professor, Galveston National Laboratory) Peiyong Shi (Professor, University of Texas) Benjamin Rusek (Associate Professor, National Academy of Sciences) Xinwen Chen (Director General, Wuhan Institute of Virology, CAS) Yanyi Wang (Deputy Director General, Wuhan Institute of Virology, CAS) Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Venue</b>	Wanda Realm Hotel Wuhan
<b>Format</b>	Workshop reports and round table discussions
<b>Language</b>	English
<b>Scale</b>	One hundred participants

<b>Sessions</b>	<ol style="list-style-type: none"> <li>1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology</li> <li>2. Emerging infectious diseases and global health security</li> <li>3. Public health response to outbreaks and issues</li> <li>4. High-level biosafety Laboratory: construction, commissioning, and sustainment</li> <li>5. Biosafety, biosecurity and bioethics</li> </ol>
<b>Invited participants (U.S.)</b>	<p>Linda Saif (Academician, Ohio State University)</p> <p>David Relman (Academician, Stanford University)</p> <p>James W. Le Duc (Professor, Galveston National Laboratory)</p> <p>Thomas Ksiazek (Professor, Galveston National Laboratory)</p> <p>Ruth Berkelman (Professor, Emory University)</p> <p>David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases)</p> <p>Adolfo Garcia Sastre (Professor, Mount Sinai School of Medicine)</p> <p>Benjamin J. Rusek (Associate Professor, National Academy of Sciences)</p> <p>Peiyong Shi (Professor, University of Texas)</p> <p>David Swayne (Director, USDA Southeast Poultry Research Laboratory)</p>
<b>Invited participants (China)</b>	<p>Yaping Zhang (Vice President, Chinese Academy of Sciences)</p> <p>Zhigao Bu (Deputy Director General, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)</p> <p>Donglai Wu (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)</p> <p>Hualan Chen (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)</p> <p>Yunzhang Hu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)</p> <p>Peijun Zhai (Division Director, China National Accreditation Service for Conformity Assessment)</p> <p>Yingjin Yuan (Principal, Tianjin University)</p> <p>Wensheng Wei (Professor, Peking University)</p> <p>George F. Gao (Academician, Institute of Microbiology, CAS)</p> <p>Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)</p> <p>Mifang Liang (Principle Investigator, National Institute for Viral Disease</p>



Control and Prevention)

Wei Chen (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)

Jianping Zuo (Principle Investigator, Shanghai Institute of Materia Medica, CAS)

Yongtang Zheng (Principle Investigator, Kunming Institute of Zoology, CAS)

Rui Gong (Principle Investigator, Wuhan Institute of Virology, CAS)

Jinghua Yan (Principle Investigator, Institute of Microbiology, CAS)

Jianguo Xu (Academician, National Institute for Communicable Disease Control and Prevention, China)

Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)

Qiang Wei (Division Deputy Director, Chinese Center for Disease Control and Prevention)

Jiahai Lu (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)

Gong Cheng (Principle Investigator, Qinghua University)

Chengfeng Qin (Professor, The Academy of Military Medical Sciences)

Longding Liu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

## **Agenda**

### **May 16<sup>th</sup> 2017**

19:00-21:00 VIP Dinner

### **May 17<sup>th</sup> 2017**

09:00-10:00 Opening Remarks

China: -**Yaping Zhang** (Vice President, Chinese Academy of Sciences)

-**Speech by Chinese Organizer** (possibly Director General from WIV)

U.S.: -Introduction and welcome from NAS - **Linda Saif** (Academician, Ohio State University) (5-10 min)

-Introduction and strategic overview from NAM - **David Relman** (Academician, Stanford University) (10-15 min)

-P4 operation and sustainability - **James LeDuc** (Professor, Galveston National Laboratory) (10-15min)

10:00-10:30 Tea break and group photo

**Session 1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology**

-Thoughts on Gain of function research, gene editing, targeting and delivery and other novel biotechnology

-the recent advances in technology and their applications

10:30-10:50 - **Yingjin Yuan** (Principal, Tianjin University)

10:50-11:10 -**Hualan Chen** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

11:10-11:30 -**Wensheng Wei** (Professor, Peking University)

11:30-11:50 -Gene editing and advances in synthetic biology: challenges and opportunities - **David Relman** (Academician, Stanford University)

11:50-12:20-Gain-of-Function Research – TBD - possibly **Ruth Berkelman** (Professor, Emory University)

- **David R. Franz** (Professor, US Army Medical Research Institute of Infectious Diseases)

- or **Adolfo Garcia Sastre** (Professor, Mount Sinai School of Medicine)

12:30-13:30 Lunch

**Session 2. Emerging infectious diseases and global health security**

-Collaborating on influenza, including avian influenza

-Host-pathogen interaction (pathogenesis)

13:30-13:50 - **George F. Gao** (Academician, Institute of Microbiology, CAS)

13:50-14:10 - **Jiahai Lu** (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)

14:10-14:30- **Zhengli Shi** (Principle Investigator, Wuhan Institute of Virology, CAS)

14:30-14:50 -**Mifang Liang** (Principle Investigator, National Institute for Viral Disease Control and Prevention)

14:50-15:10 Tea break

15:10-15:30 Collaborating on Influenza, including avian influenza - TBD - possibly **David Swayne** (Director, USDA Southeast Poultry Research Laboratory)

15:30-15:50 Coronaviruses and other pathogens of agricultural and human health importance - **Linda Saif** (Academician, Ohio State University)

15:50-16:10 Vector-borne diseases -**Pei-Yong Shi** (Professor, University of Texas) Gong Cheng (Principle Investigator, Qinghua University)

16:10-16:30 - **Gong Cheng** (Principle Investigator, Qinghua University)

16:30-16:50 - **Chengfeng Qin** (Professor, The Academy of Military Medical Sciences)

16:50-17:50 Round table discussion

18:30-20:30 Dinner

## **May 18<sup>th</sup>, 2017**

### **Session 3. Public health response to outbreaks and issues**

- Anti-viral countermeasures (strategy and R&D)

- Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment hospital room' in the lab vs. working with local hospital for care of a LAI patient outside the lab)

09:00-09:20 - **Wei Chen** (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)

09:20-09:50 - **Jianping Zuo** (Principle Investigator, Shanghai Institute of Materia Medica, CAS)

09:50-10:10 - **Yongtang Zheng** (Principle Investigator, Kunming Institute of Zoology, CAS)

10:10-10:30 Tea break

10:30-10:50 - **Rui Gong** (Principle Investigator, Wuhan Institute of Virology, CAS)

- **Jinghua Yan** (Principle Investigator, Institute of Microbiology, CAS)

10:50-11:10 -Anti-viral countermeasures (strategy and R&D), Discovery and development of antiviral countermeasures -**Pei-Yong Shi** (Professor, University of Texas)

11:10-11:30 -Improving the laboratory's role in emergency health response, Communications during crisis - **James Le Duc** (Professor, Galveston National Laboratory)

11:30-13:30 Lunch

### **Session 4. High-level biosafety Laboratory: construction, commissioning, and sustainment**

- Requirements for high containment labs in China and the U.S and discussion of recent projects

- Community relations and public communication

- Should biocontainment labs have clinical facilities?

- Biocontainment maintenance and operations / Outbreak response / Importance of reference collections and reagents;

13:30-13:50 - **Donglai Wu** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

13:50-14:10- **Yunzhang Hu** (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

14:10-14:30- **Peijun Zhai** (Division Director, China National Accreditation Service for Conformity Assessment)

14:30-14:50 Technical aspects of high-containment lab sustainability: challenges of maintaining a

maximum containment laboratory: The GNL experience - **James Le Duc** (Professor, Galveston National Laboratory)

Regulatory issues, pathogen transfers (maintaining reference collections/academic repositories) - **Thomas Ksiazek** (Professor, Galveston National Laboratory)

14:50-15:10 Tea break

**Session 5. Biosafety, biosecurity and bioethics**

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training
- Laboratory leadership, culture and ethics

15:10-15:30 - **Jianguo Xu** (Academician, National Institute for Communicable Disease Control and Prevention, China)

15:30-15:50 - **Zhiming Yuan** (Principle Investigator, Wuhan Institute of Virology, CAS)

15:50-16:10 - **Qiang Wei** (Division Deputy Director, Chinese Center for Disease Control and Prevention)

16:10-16:30 Biocontainment maintenance and operations and UTMB training programs in Wuhan and Kunming - **Thomas Ksiazek** (Professor, Galveston National Laboratory)

16:30-16:50 Leadership and culture of responsibility - **David Franz** (Professor, US Army Medical Research Institute of Infectious Diseases)

16:50-17:50 Round table discussion

18:30-20:30 Dinner

**May 19<sup>th</sup>, 2017**

(1) A visit to Wuhan P4 Lab

U.S. participants:

David Franz

Thomas Ksiazek

James Le Duc

Pei-Yong Shi

David Relman

Linda Saif

Ben Rusek

Ruth Berkelman (TBD)

David Swayne (TBD)

(2) A visit to Wuhan Botanical Garden or Hubei Provincial Museum

**Second China-U.S. Workshop on the Challenges of Emerging Infections,  
Laboratory Safety and Global Health Security  
(May 17-19 2017, Wuhan, China)**

In order to further enhance academic exchanges and cooperation between China and the United States, the Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security will be held on May 17-19, 2017 in Wuhan, China. This workshop will mainly focus on safe laboratory construction and operation, innovative biotechnology, prevention of emerging infectious diseases, biosafety and bioethics. By gathering extraordinary reports on scientific and technological achievements, and discussing the current development on related studies, the participants from China and the United States can communicate and get further understanding regarding new issues that occur in field of global health biosafety. Under this condition, this workshop aims at utilizing the advantages of China-U.S. cooperation and collaboration for responding to emerging infectious diseases more positively and guarantee laboratory and global health biosafety, so as to make more contributions to the medical industry and human health.

Deleted: the

Deleted: biosafety

Deleted: n

Deleted: on

Deleted: the

Deleted: y

<b>Organizers</b>	National Academy of Sciences Chinese Academy of Sciences Wuhan Institute of Virology, CAS Hubei Society for Microbiology
<b>Chairs</b>	David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases) Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Committee</b>	James LeDuc (Professor, Galveston National Laboratory) Peiyong Shi (Professor, University of Texas) Benjamin Rusek (Associate Professor, National Academy of Sciences) Xinwen Chen (Director General, Wuhan Institute of Virology, CAS) Yanyi Wang (Deputy Director General, Wuhan Institute of Virology, CAS) Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Venue</b>	Wanda Realm Hotel Wuhan
<b>Format</b>	Workshop reports and round table discussions
<b>Language</b>	English
<b>Scale</b>	One hundred participants

**Sessions**

1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology
2. Emerging infectious diseases and global health security
3. Public health response to outbreaks and issues
4. High-level biosafety Laboratory: construction, commissioning, and sustainment
5. Biosafety, biosecurity and bioethics

**Invited participants (U.S.)**

Linda Saif (Academician, Ohio State University)

David Relman (Academician, Stanford University)

James W. Le Duc (Professor, Galveston National Laboratory)

Thomas Ksiazek (Professor, Galveston National Laboratory)

David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases)

Benjamin J. Rusek (Associate Professor, National Academy of Sciences)

Peiyong Shi (Professor, University of Texas)

David Swayne (Director, USDA Southeast Poultry Research Laboratory)

**Invited participants (China)**

Yaping Zhang (Vice President, Chinese Academy of Sciences)

Zhigao Bu (Deputy Director General, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

Donglai Wu (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

Hualan Chen (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

Yunzhang Hu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

Peijun Zhai (Division Director, China National Accreditation Service for Conformity Assessment)

Yingjin Yuan (Principal, Tianjin University)

Wensheng Wei (Professor, Peking University)

George F. Gao (Academician, Institute of Microbiology, CAS)

Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)

Mifang Liang (Principle Investigator, National Institute for Viral Disease Control and Prevention)

Wei Chen (Director General, Institute of Biotechnology, Academy of Military

**Deleted:** Ruth Berkelman (Professor, Emory University)

**Deleted:** Adolfo Garcia Sastre (Professor, Mount Sinai School of Medicine)

Medical Sciences)

Jianping Zuo (Principle Investigator, Shanghai Institute of Materia Medica, CAS)

Yongtang Zheng (Principle Investigator, Kunming Institute of Zoology, CAS)

Rui Gong (Principle Investigator, Wuhan Institute of Virology, CAS)

Jinghua Yan (Principle Investigator, Institute of Microbiology, CAS)

Jianguo Xu (Academician, National Institute for Communicable Disease Control and Prevention, China)

Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)

Qiang Wei (Division Deputy Director, Chinese Center for Disease Control and Prevention)

Jiahai Lu (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)

Gong Cheng (Principle Investigator, Qinghua University)

Chengfeng Qin (Professor, The Academy of Military Medical Sciences)

Longding Liu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

**Agenda**

**May 16<sup>th</sup> 2017**

19:00-21:00 VIP Dinner

**May 17<sup>th</sup> 2017**

09:00-10:00 Opening Remarks

China: -**Yaping Zhang** (Vice President, Chinese Academy of Sciences)

-**Speech by Chinese Organizer** (possibly Director General from WIV)

U.S.: -Introduction and welcome from NAS - **Linda Saif** (Academician, Ohio State University) (5-10 min)

-Introduction and strategic overview from NAM - **David Relman** (Academician, Stanford University) (10-15 min)

-P4 operation and sustainability - **James LeDuc** (Professor, Galveston National Laboratory) (10-15min)

10:00-10:30 Tea break and group photo

**Session 1 Gain of function research, gene editing, targeting and delivery and other novel biotechnology**

-Thoughts on Gain of function research, gene editing, targeting and delivery and other novel



biotechnology

-the recent advances in technology and their applications

10:30-10:50 - **Yingjin Yuan** (Principal, Tianjin University)

10:50-11:10 - **Hualan Chen** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

11:10-11:30 - **Wensheng Wei** (Professor, Peking University)

11:30-11:50 -Gene editing and advances in synthetic biology: challenges and opportunities - **David Relman** (Academician, Stanford University)

11:50-12:20-Gain-of-Function Research –  
- **David R. Franz** (Professor, US Army Medical Research Institute  
of Infectious Diseases)

Deleted: TBD - possibly **Ruth Berkelman** (Professor, Emory University)

Formatted: Indent: First line: 0 ch

Deleted: or **Adolfo Garcia Sastre** (Professor, Mount Sinai School of Medicine)

12:30-13:30 Lunch

#### Session 2. Emerging infectious diseases and global health security

-Collaborating on influenza, including avian influenza

-Host-pathogen interaction (pathogenesis)

13:30-13:50 - **George F. Gao** (Academician, Institute of Microbiology, CAS)

13:50-14:10 - **Jiahai Lu** (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)

14:10-14:30- **Zhengli Shi** (Principle Investigator, Wuhan Institute of Virology, CAS)

14:30-14:50 - **Mifang Liang** (Principle Investigator, National Institute for Viral Disease Control and Prevention)

14:50-15:10 Tea break

15:10-15:30 Collaborating on Influenza, including avian influenza - TBD - possibly **David Swayne** (Director, USDA Southeast Poultry Research Laboratory)

15:30-15:50 Coronaviruses and other pathogens of agricultural and human health importance - **Linda Saif** (Academician, Ohio State University)

15:50-16:10 Vector-borne diseases - **Pei-Yong Shi** (Professor, University of Texas) Gong Cheng (Principle Investigator, Qinghua University)

16:10-16:30 - **Gong Cheng** (Principle Investigator, Qinghua University)

16:30-16:50 - **Chengfeng Qin** (Professor, The Academy of Military Medical Sciences)

16:50-17:50 Round table discussion

18:30-20:30 Dinner

May 18<sup>th</sup>, 2017

### Session 3. Public health response to outbreaks and issues

- Anti-viral countermeasures (strategy and R&D)

- Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment hospital room' in the lab vs. working with local hospital for care of a LAI patient outside the lab)

09:00-09:20 - **Wei Chen** (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)

09:20-09:50 - **Jianping Zuo** (Principle Investigator, Shanghai Institute of Materia Medica, CAS)

09:50-10:10 - **Yongtang Zheng** (Principle Investigator, Kunming Institute of Zoology, CAS)

10:10-10:30 Tea break

10:30-10:50 - **Rui Gong** (Principle Investigator, Wuhan Institute of Virology, CAS)

- **Jinghua Yan** (Principle Investigator, Institute of Microbiology, CAS)

10:50-11:10 -Anti-viral countermeasures (strategy and R&D), Discovery and development of antiviral countermeasures -**Pei-Yong Shi** (Professor, University of Texas)

11:10-11:30 -Improving the laboratory's role in emergency health response, Communications during crisis - **James Le Duc** (Professor, Galveston National Laboratory)

11:30-13:30 Lunch

### Session 4. High-level biosafety Laboratory: construction, commissioning, and sustainment

- Requirements for high containment labs in China and the U.S and discussion of recent projects

- Community relations and public communication

- Should biocontainment labs have clinical facilities?

- Biocontainment maintenance and operations / Outbreak response / Importance of reference collections and reagents;

13:30-13:50 - **Donglai Wu** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

13:50-14:10- **Yunzhang Hu** (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

14:10-14:30- **Peijun Zhai** (Division Director, China National Accreditation Service for Conformity Assessment)

14:30-14:50 Technical aspects of high-containment lab sustainability: challenges of maintaining a maximum containment laboratory: The GNL experience - **James Le Duc** (Professor, Galveston National Laboratory)

Regulatory issues, pathogen transfers (maintaining reference collections/academic repositories) - **Thomas Ksiazek** (Professor, Galveston National Laboratory)

14:50-15:10 Tea break

**Session 5. Biosafety, biosecurity and bioethics**

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training
- Laboratory leadership, culture and ethics

15:10-15:30 - **Jianguo Xu** (Academician, National Institute for Communicable Disease Control and Prevention, China)

15:30-15:50 - **Zhiming Yuan** (Principle Investigator, Wuhan Institute of Virology, CAS)

15:50-16:10 - **Qiang Wei** (Division Deputy Director, Chinese Center for Disease Control and Prevention)

16:10-16:30 Biocontainment maintenance and operations and UTMB training programs in Wuhan and Kunming - **Thomas Ksiazek** (Professor, Galveston National Laboratory)

16:30-16:50 Leadership and culture of responsibility - **David Franz** (Professor, US Army Medical Research Institute of Infectious Diseases)

16:50-17:50 Round table discussion

18:30-20:30 Dinner

**May 19<sup>th</sup>, 2017**

(1) A visit to Wuhan P4 Lab

U.S. participants:

David Franz

Thomas Ksiazek

James Le Duc

Pei-Yong Shi

David Relman

Linda Saif

Ben Rusek

Ruth Berkelman (TBD)

David Swayne (TBD)

(2) A visit to Wuhan Botanical Garden or Hubei Provincial Museum

## Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security

**May 17-19 2017, Wuhan, China**

In order to further enhance academic exchanges and cooperation between China and the United States, the Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security will be held on May 17-19, 2017 in Wuhan, China. This workshop will mainly focus on safe laboratory construction and operation, innovative biotechnology, prevention of emerging infectious diseases, biosafety and bioethics. By gathering extraordinary reports on scientific and technological achievements, and discussing the current development on related studies, the participants from China and the United States can communicate and get further understanding regarding new issues that occur in field of global health biosafety. Under this condition, this workshop aims at utilizing the advantages of China-U.S. cooperation and collaboration for responding to emerging infectious diseases more positively and guarantee laboratory and global health biosafety, so as to make more contributions to the medical industry and human health.

<b>Organizers</b>	U.S. National Academy of Sciences Chinese Academy of Sciences Wuhan Institute of Virology, CAS Hubei Society for Microbiology
<b>Chairs</b>	David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases) Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Committee</b>	James LeDuc (Professor, Galveston National Laboratory) Peiyong Shi (Professor, University of Texas) Benjamin Rusek (Senior Program Officer, National Academy of Sciences) Xinwen Chen (Director General, Wuhan Institute of Virology, CAS) Yanyi Wang (Deputy Director General, Wuhan Institute of Virology, CAS) Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Venue</b>	Wanda Realm Hotel Wuhan
<b>Format</b>	Workshop reports and round table discussions
<b>Language</b>	English
<b>Scale</b>	One hundred participants
<b>Sessions</b>	<ol style="list-style-type: none"> <li>1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology</li> <li>2. Emerging infectious diseases and global health security</li> <li>3. Public health response to outbreaks and issues</li> </ol>

4. High-level biosafety Laboratory: construction, commissioning, and sustainment
5. Biosafety, biosecurity and bioethics

**Invited  
participants  
(U.S.)**

Linda Saif (Academician, Ohio State University)  
 David Relman (Academician, Stanford University)  
 James W. Le Duc (Professor, Galveston National Laboratory)  
 Thomas Ksiazek (Professor, Galveston National Laboratory)  
 David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases)  
 Benjamin J. Rusek (Senior Program Officer, National Academy of Sciences)  
 Peiyong Shi (Professor, University of Texas)  
 David Swayne (Director, USDA Southeast Poultry Research Laboratory)

**Invited  
participants  
(China)**

Yaping Zhang (Vice President, Chinese Academy of Sciences)  
 Zhigao Bu (Deputy Director General, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Donglai Wu (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Hualan Chen (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Yunzhang Hu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)  
 Peijun Zhai (Division Director, China National Accreditation Service for Conformity Assessment)  
 Yingjin Yuan (Principal, Tianjin University)  
 Wensheng Wei (Professor, Peking University)  
 George F. Gao (Academician, Institute of Microbiology, CAS)  
 Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Mifang Liang (Principle Investigator, National Institute for Viral Disease Control and Prevention)  
 Wei Chen (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)  
 Jianping Zuo (Principle Investigator, Shanghai Institute of Materia Medica, CAS)  
 Yongtang Zheng (Principle Investigator, Kunming Institute of Zoology, CAS)  
 Rui Gong (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Jinghua Yan (Principle Investigator, Institute of Microbiology, CAS)  
 Jianguo Xu (Academician, National Institute for Communicable Disease Control and Prevention, China)  
 Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Qiang Wei (Division Deputy Director, Chinese Center for Disease Control and Prevention)  
 Jiahai Lu (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)  
 Gong Cheng (Principle Investigator, Qinghua University)  
 Chengfeng Qin (Professor, The Academy of Military Medical Sciences)  
 Longding Liu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

## Agenda

### May 16<sup>th</sup> 2017

19:00-21:00 VIP Dinner

### May 17<sup>th</sup> 2017

09:00-10:00 Opening Remarks

China: **-Yaping Zhang** (Vice President, Chinese Academy of Sciences)

**-Speech by Chinese Organizer** (possibly Director General from WIV)

U.S.: **Linda Saif** (Academician, Ohio State University) (5-10 min) - *Introduction and welcome from NAS*

**David Relman** (Academician, Stanford University) (10-15 min) - *Introduction and strategic overview from NAM*

**James LeDuc** (Professor, Galveston National Laboratory) (10-15min) - *P4 operation and sustainability* -

10:00-10:30 Tea break and group photo

### **Session 1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology**

-Thoughts on Gain of function research, gene editing, targeting and delivery and other novel biotechnology

-the recent advances in technology and their applications

10:30-10:50 - **Yingjin Yuan** (Principal, Tianjin University)

10:50-11:10 - **Hualan Chen** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

11:10-11:30 - **Wensheng Wei** (Professor, Peking University)

11:30-11:50 - **David Relman** (Academician, Stanford University) - *Gene editing and advances in synthetic biology: challenges and opportunities*

11:50-12:20 - **David R. Franz** (Professor, US Army Medical Research Institute of Infectious Diseases) - *Gain-of-Function Research*

-

12:30-13:30 Lunch

## **Session 2. Emerging infectious diseases and global health security**

- Collaborating on influenza, including avian influenza
- Host-pathogen interaction (pathogenesis)

13:30-13:50 - **George F. Gao** (Academician, Institute of Microbiology, CAS)

13:50-14:10 - **Jiahai Lu** (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)

14:10-14:30- **Zhengli Shi** (Principle Investigator, Wuhan Institute of Virology, CAS)

14:30-14:50 -**Mifang Liang** (Principle Investigator, National Institute for Viral Disease Control and Prevention)

14:50-15:10 Tea break

15:10-15:30 -**David Swayne** (Director, USDA Southeast Poultry Research Laboratory) - *Collaborating on Influenza, including avian influenza*

15:30-15:50 -**Linda Saif** (Academician, Ohio State University) - *Coronaviruses and other pathogens of agricultural and human health importance*

15:50-16:10 **Pei-Yong Shi** (Professor, University of Texas) Gong Cheng (Principle Investigator, Qinghua University) - *Vector-borne diseases-*

16:10-16:30 - **Gong Cheng** (Principle Investigator, Qinghua University)

16:30-16:50 - **Chengfeng Qin** (Professor, The Academy of Military Medical Sciences)

16:50-17:50 Round table discussion

18:30-20:30 Dinner

**May 18<sup>th</sup>, 2017**

## **Session 3. Public health response to outbreaks and issues**

- Anti-viral countermeasures (strategy and R&D)
- Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment hospital room' in the lab vs. working with local hospital for care of a LAI patient outside the lab)

09:00-09:20 - **Wei Chen** (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)

09:20-09:50 - **Jianping Zuo** (Principle Investigator, Shanghai Institute of Materia Medica,

CAS)

09:50-10:10 - **Yongtang Zheng** (Principle Investigator, Kunming Institute of Zoology, CAS)

10:10-10:30 Tea break

10:30-10:50 - **Rui Gong** (Principle Investigator, Wuhan Institute of Virology, CAS)

- **Jinghua Yan** (Principle Investigator, Institute of Microbiology, CAS)

10:50-11:10 **Pei-Yong Shi** (Professor, University of Texas) -*Anti-viral countermeasures (strategy and R&D), Discovery and development of antiviral countermeasures*

11:10-11:30 **James Le Duc** (Professor, Galveston National Laboratory) - *Improving the laboratory's role in emergency health response, Communications during crisis*

11:30-13:30 Lunch

#### **Session 4. High-level biosafety Laboratory: construction, commissioning, and sustainment**

- Requirements for high containment labs in China and the U.S and discussion of recent projects
- Community relations and public communication
- Should biocontainment labs have clinical facilities?
- Biocontainment maintenance and operations / Outbreak response / Importance of reference collections and reagents

13:30-13:50 - **Donglai Wu** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

13:50-14:10- **Yunzhang Hu** (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

14:10-14:30- **Peijun Zhai** (Division Director, China National Accreditation Service for Conformity Assessment)

14:30-14:50 **James Le Duc** (Professor, Galveston National Laboratory) - *Technical aspects of high-containment lab sustainability: challenges of maintaining a maximum containment laboratory: The GNL experience*

**Thomas Ksiazek** (Professor, Galveston National Laboratory) - *Regulatory issues, pathogen transfers (maintaining reference collections/academic repositories)*



14:50-15:10 Tea break

## **Session 5. Biosafety, biosecurity and bioethics**

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training
- Laboratory leadership, culture and ethics

15:10-15:30 - **Jianguo Xu** (Academician, National Institute for Communicable Disease Control and Prevention, China)

15:30-15:50 - **Zhiming Yuan** (Principle Investigator, Wuhan Institute of Virology, CAS)

15:50-16:10 - **Qiang Wei** (Division Deputy Director, Chinese Center for Disease Control and Prevention)

16:10-16:30 **Thomas Ksiazek** (Professor, Galveston National Laboratory) - *Biocontainment maintenance and operations and UTMB training programs in Wuhan and Kunming*

16:30-16:50 **David Franz** (Professor, US Army Medical Research Institute of Infectious Diseases) - *Leadership and culture of responsibility*

16:50-17:50 Round table discussion

18:30-20:30 Dinner

## **May 19<sup>th</sup>, 2017**

(1) A visit to Wuhan P4 Lab

U.S. participants:

David Franz

Thomas Ksiazek

James Le Duc

Pei-Yong Shi

David Relman

Linda Saif

David Swayne

Ben Rusek

(2) A visit to Wuhan Botanical Garden or Hubei Provincial Museum

## Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security

**May 17-19 2017, Wuhan, China**

In order to further enhance academic exchanges and cooperation between China and the United States, the Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security will be held on May 17-19, 2017 in Wuhan, China. This workshop will mainly focus on safe laboratory construction and operation, innovative biotechnology, prevention of emerging infectious diseases, biosafety and bioethics. By gathering extraordinary reports on scientific and technological achievements, and discussing the current development on related studies, the participants from China and the United States can communicate and get further understanding regarding new issues that occur in field of global health biosafety. Under this condition, this workshop aims at utilizing the advantages of China-U.S. cooperation and collaboration for responding to emerging infectious diseases more positively and guarantee laboratory and global health biosafety, so as to make more contributions to the medical industry and human health.

<b>Organizers</b>	U.S. National Academy of Sciences Chinese Academy of Sciences Wuhan Institute of Virology, CAS Hubei Society for Microbiology
<b>Chairs</b>	David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases) Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Committee</b>	James LeDuc (Professor, Galveston National Laboratory) Peiyong Shi (Professor, University of Texas) Benjamin Rusek (Senior Program Officer, National Academy of Sciences) Xinwen Chen (Director General, Wuhan Institute of Virology, CAS) Yanyi Wang (Deputy Director General, Wuhan Institute of Virology, CAS) Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Venue</b>	Wanda Realm Hotel Wuhan
<b>Format</b>	Workshop reports and round table discussions
<b>Language</b>	English
<b>Scale</b>	One hundred participants
<b>Sessions</b>	<ol style="list-style-type: none"> <li>1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology</li> <li>2. Emerging infectious diseases and global health security</li> <li>3. Public health response to outbreaks and issues</li> </ol>

4. High-level biosafety Laboratory: construction, commissioning, and sustainment
5. Biosafety, biosecurity and bioethics

**Invited  
participants  
(U.S.)**

Linda Saif (Academician, Ohio State University)  
 David Relman (Academician, Stanford University)  
 James W. Le Duc (Professor, Galveston National Laboratory)  
 Thomas Ksiazek (Professor, Galveston National Laboratory)  
 David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases)  
 Benjamin J. Rusek (Senior Program Officer, National Academy of Sciences)  
 Peiyong Shi (Professor, University of Texas)  
 David Swayne (Director, USDA Southeast Poultry Research Laboratory)

**Invited  
participants  
(China)**

Yaping Zhang (Vice President, Chinese Academy of Sciences)  
 Zhigao Bu (Deputy Director General, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Donglai Wu (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Hualan Chen (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Yunzhang Hu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)  
 Peijun Zhai (Division Director, China National Accreditation Service for Conformity Assessment)  
 Yingjin Yuan (Principal, Tianjin University)  
 Wensheng Wei (Professor, Peking University)  
 George F. Gao (Academician, Institute of Microbiology, CAS)  
 Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Mifang Liang (Principle Investigator, National Institute for Viral Disease Control and Prevention)  
 Wei Chen (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)  
 Jianping Zuo (Principle Investigator, Shanghai Institute of Materia Medica, CAS)  
 Yongtang Zheng (Principle Investigator, Kunming Institute of Zoology, CAS)  
 Rui Gong (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Jinghua Yan (Principle Investigator, Institute of Microbiology, CAS)  
 Jianguo Xu (Academician, National Institute for Communicable Disease Control and Prevention, China)  
 Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Qiang Wei (Division Deputy Director, Chinese Center for Disease Control and Prevention)  
 Jiahai Lu (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)  
 Gong Cheng (Principle Investigator, Qinghua University)  
 Chengfeng Qin (Professor, The Academy of Military Medical Sciences)  
 Longding Liu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

## Agenda

### May 16<sup>th</sup> 2017

19:00-21:00 VIP Dinner

### May 17<sup>th</sup> 2017

09:00-10:00 Opening Remarks

China: **-Yaping Zhang** (Vice President, Chinese Academy of Sciences)

**-Speech by Chinese Organizer** (possibly Director General from WIV)

U.S.: **Linda Saif** (Academician, Ohio State University) (5-10 min) - *Introduction and welcome from NAS*

**David Relman** (Academician, Stanford University) (10-15 min) - *Introduction and strategic overview from NAM*

**James LeDuc** (Professor, Galveston National Laboratory) (10-15min) - *P4 operation and sustainability* -

10:00-10:30 Tea break and group photo

### **Session 1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology**

-Thoughts on Gain of function research, gene editing, targeting and delivery and other novel biotechnology

-the recent advances in technology and their applications

10:30-10:50 - **Yingjin Yuan** (Principal, Tianjin University)

10:50-11:10 - **Hualan Chen** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

11:10-11:30 - **Wensheng Wei** (Professor, Peking University)

11:30-11:50 - **David Relman** (Academician, Stanford University) - *Gene editing and advances in synthetic biology: challenges and opportunities*

11:50-12:20 - **David R. Franz** (Professor, US Army Medical Research Institute of Infectious Diseases) - *Gain-of-Function Research*

-

12:30-13:30 Lunch

## **Session 2. Emerging infectious diseases and global health security**

- Collaborating on influenza, including avian influenza
- Host-pathogen interaction (pathogenesis)

13:30-13:50 - **George F. Gao** (Academician, Institute of Microbiology, CAS)

13:50-14:10 - **Jiahai Lu** (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)

14:10-14:30- **Zhengli Shi** (Principle Investigator, Wuhan Institute of Virology, CAS)

14:30-14:50 -**Mifang Liang** (Principle Investigator, National Institute for Viral Disease Control and Prevention)

14:50-15:10 Tea break

15:10-15:30 -**David Swayne** (Director, USDA Southeast Poultry Research Laboratory) - *Collaborating on Influenza, including avian influenza*

15:30-15:50 -**Linda Saif** (Academician, Ohio State University) - *Coronaviruses and other pathogens of agricultural and human health importance*

15:50-16:10 **Pei-Yong Shi** (Professor, University of Texas) Gong Cheng (Principle Investigator, Qinghua University) - *Vector-borne diseases-*

16:10-16:30 - **Gong Cheng** (Principle Investigator, Qinghua University)

16:30-16:50 - **Chengfeng Qin** (Professor, The Academy of Military Medical Sciences)

16:50-17:50 Round table discussion

18:30-20:30 Dinner

**May 18<sup>th</sup>, 2017**

## **Session 3. Public health response to outbreaks and issues**

- Anti-viral countermeasures (strategy and R&D)
- Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment hospital room' in the lab vs. working with local hospital for care of a LAI patient outside the lab)

09:00-09:20 - **Wei Chen** (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)

09:20-09:50 - **Jianping Zuo** (Principle Investigator, Shanghai Institute of Materia Medica,

CAS)

09:50-10:10 - **Yongtang Zheng** (Principle Investigator, Kunming Institute of Zoology, CAS)

10:10-10:30 Tea break

10:30-10:50 - **Rui Gong** (Principle Investigator, Wuhan Institute of Virology, CAS)  
- **Jinghua Yan** (Principle Investigator, Institute of Microbiology, CAS)

10:50-11:10 **Pei-Yong Shi** (Professor, University of Texas) -*Anti-viral countermeasures (strategy and R&D), Discovery and development of antiviral countermeasures*

11:10-11:30 **James Le Duc** (Professor, Galveston National Laboratory) - *Improving the laboratory's role in emergency health response, Communications during crisis*

11:30-13:30 Lunch

#### **Session 4. High-level biosafety Laboratory: construction, commissioning, and sustainment**

- Requirements for high containment labs in China and the U.S and discussion of recent projects
- Community relations and public communication
- Should biocontainment labs have clinical facilities?
- Biocontainment maintenance and operations / Outbreak response / Importance of reference collections and reagents

13:30-13:50 - **Donglai Wu** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

13:50-14:10- **Yunzhang Hu** (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

14:10-14:30- **Peijun Zhai** (Division Director, China National Accreditation Service for Conformity Assessment)

14:30-14:50 **James Le Duc** (Professor, Galveston National Laboratory) - *Technical aspects of high-containment lab sustainability: challenges of maintaining a maximum containment laboratory: The GNL experience*

**Thomas Ksiazek** (Professor, Galveston National Laboratory) - *Regulatory issues, pathogen transfers (maintaining reference collections/academic repositories)*

14:50-15:10 Tea break

## **Session 5. Biosafety, biosecurity and bioethics**

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training
- Laboratory leadership, culture and ethics

15:10-15:30 - **Jianguo Xu** (Academician, National Institute for Communicable Disease Control and Prevention, China)

15:30-15:50 - **Zhiming Yuan** (Principle Investigator, Wuhan Institute of Virology, CAS)

15:50-16:10 - **Qiang Wei** (Division Deputy Director, Chinese Center for Disease Control and Prevention)

16:10-16:30 **Thomas Ksiazek** (Professor, Galveston National Laboratory) - *Biocontainment maintenance and operations and UTMB training programs in Wuhan and Kunming*

16:30-16:50 **David Franz** (Professor, US Army Medical Research Institute of Infectious Diseases) - *Leadership and culture of responsibility*

16:50-17:50 Round table discussion

18:30-20:30 Dinner

## **May 19<sup>th</sup>, 2017**

(1) A visit to Wuhan P4 Lab

U.S. participants:

David Franz

Thomas Ksiazek

James Le Duc

Pei-Yong Shi

David Relman

Linda Saif

David Swayne

Ben Rusek

(2) A visit to Wuhan Botanical Garden or Hubei Provincial Museum

**Second China-U.S. Workshop on the Challenges of Emerging  
Infections, Laboratory Safety and Global Health Security  
May 17-19 2017, Wuhan, China**

In order to further enhance academic exchanges and cooperation between China and the United States, the Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security will be held on May 17-19, 2017 in Wuhan, China. This workshop will mainly focus on safe laboratory construction and operation, innovative biotechnology, prevention of emerging infectious diseases, biosafety and bioethics. By gathering extraordinary reports on scientific and technological achievements, and discussing the current development on related studies, the participants from China and the United States can communicate and get further understanding regarding new issues that occur in field of global health biosafety. Under this condition, this workshop aims at utilizing the advantages of China-U.S. cooperation and collaboration for responding to emerging infectious diseases more positively and guarantee laboratory and global health biosafety, so as to make more contributions to the medical industry and human health.

<b>Organizers</b>	U.S. National Academy of Sciences Chinese Academy of Sciences Wuhan Institute of Virology, CAS Hubei Society for Microbiology
<b>Chairs</b>	David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases) Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Committee</b>	James LeDuc (Professor, Galveston National Laboratory) Peiyong Shi (Professor, University of Texas) Benjamin Rusek (Senior Program Officer, National Academy of Sciences) Xinwen Chen (Director General, Wuhan Institute of Virology, CAS) Yanyi Wang (Deputy Director General, Wuhan Institute of Virology, CAS) Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Venue</b>	Wanda Realm Hotel Wuhan
<b>Format</b>	Workshop reports and round table discussions
<b>Language</b>	English
<b>Scale</b>	One hundred participants
<b>Sessions</b>	1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology 2. Emerging infectious diseases and global health security 3. Public health response to outbreaks and issues



4. High-level biosafety Laboratory: construction, commissioning, and sustainment
5. Biosafety, biosecurity and bioethics

**Invited  
participants  
(U.S.)**

Linda Saif (Academician, Ohio State University)  
 David Relman (Academician, Stanford University)  
 James W. Le Duc (Professor, Galveston National Laboratory)  
 Thomas Ksiazek (Professor, Galveston National Laboratory)  
 David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases)  
 Benjamin J. Rusek (Senior Program Officer, National Academy of Sciences)  
 Peiyong Shi (Professor, University of Texas)  
 David Swayne (Director, USDA Southeast Poultry Research Laboratory)

**Invited  
participants  
(China)**

Yaping Zhang (Vice President, Chinese Academy of Sciences)  
 Zhigao Bu (Deputy Director General, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Donglai Wu (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Hualan Chen (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Yunzhang Hu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)  
 Peijun Zhai (Division Director, China National Accreditation Service for Conformity Assessment)  
 Yingjin Yuan (Principal, Tianjin University)  
 Wensheng Wei (Professor, Peking University)  
 George F. Gao (Academician, Institute of Microbiology, CAS)  
 Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Mifang Liang (Principle Investigator, National Institute for Viral Disease Control and Prevention)  
 Wei Chen (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)  
 Jianping Zuo (Principle Investigator, Shanghai Institute of Materia Medica, CAS)  
 Yongtang Zheng (Principle Investigator, Kunming Institute of Zoology, CAS)  
 Rui Gong (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Jinghua Yan (Principle Investigator, Institute of Microbiology, CAS)  
 Jianguo Xu (Academician, National Institute for Communicable Disease Control and Prevention, China)  
 Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Qiang Wei (Division Deputy Director, Chinese Center for Disease Control and Prevention)  
 Jiahai Lu (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)  
 Gong Cheng (Principle Investigator, Qinghua University)  
 Chengfeng Qin (Professor, The Academy of Military Medical Sciences)  
 Longding Liu (Principle Investigator, Institute of Medical Biology Chinese

Academy of Medical Sciences)

## Agenda

Note: Please reduce each talk by 5 minutes. The 5 minutes will be used for questions.

Deleted: do we want to reduce the presentation times from 20 to 15 mins and add discussion/Q&A at the end of each session?

### May 16<sup>th</sup> 2017

19:00-21:00 VIP Dinner

### May 17<sup>th</sup> 2017

09:00-10:00 Opening Remarks

China: **-Yaping Zhang** (Vice President, Chinese Academy of Sciences)  
**-Speech by Chinese Organizer** (possibly Director General from WIV)

U.S.: **Linda Saif** (Academician, Ohio State University) (5-10 min) - *Introduction and welcome from NAS*

**David Relman** (Academician, Stanford University) (10-15 min) - *Introduction and strategic overview from NAM*

**James LeDuc** (Professor, Galveston National Laboratory) (10-15min) - *P4 operation and sustainability -*

10:00-10:30 Tea break and group photo

### Session 1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology

- Thoughts on Gain of function research, gene editing, targeting and delivery and other novel biotechnology
- the recent advances in technology and their applications

10:30-10:50 - **Yingjin Yuan** (Principal, Tianjin University)

10:50-11:10 - **Hualan Chen** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

11:10-11:30 - **Wensheng Wei** (Professor, Peking University)

11:30-11:50 - **David Relman** (Academician, Stanford University) - *Gene editing and advances in synthetic biology: challenges and opportunities*

11:50-12:20 - **David R. Franz** (Professor, US Army Medical Research Institute of Infectious Diseases) - *Gain-of-Function Research*

-

12:30-13:30 Lunch

## Session 2. Emerging infectious diseases and global health security

- Collaborating on influenza, including avian influenza
- Host-pathogen interaction (pathogenesis)

13:30-13:50 - **George F. Gao** (Academician, Institute of Microbiology, CAS)

13:50-14:10 - **Jiahai Lu** (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)

14:10-14:30- **Zhengli Shi** (Principle Investigator, Wuhan Institute of Virology, CAS)

14:30-14:50 -**Mifang Liang** (Principle Investigator, National Institute for Viral Disease Control and Prevention)

14:50-15:10 Tea break

15:10-15:30 -**David Swayne** (Director, USDA Southeast Poultry Research Laboratory) - *Collaborating on Influenza, including avian influenza*

15:30-15:50 -**Linda Saif** (Academician, Ohio State University) - *Coronaviruses and other pathogens of agricultural and human health importance*

15:50-16:10 **Pei-Yong Shi** (Professor, University of Texas) Gong Cheng (Principle Investigator, Qinghua University) - *Vector-borne diseases-*

16:10-16:30 - **Gong Cheng** (Principle Investigator, Qinghua University)

16:30-16:50 - **Chengfeng Qin** (Professor, The Academy of Military Medical Sciences)

16:50-17:30 Round table discussion *Review of Day one and plan for day two*

Deleted: 50

Zhiming Yuan and David Franz Co-chairs

18:30-20:30 Dinner

May 18<sup>th</sup>, 2017

## Session 3. Public health response to outbreaks and issues

- Anti-viral countermeasures (strategy and R&D)
- Improving the laboratory's role in emergency health response (Discussion of issues like dedicated high-containment hospital room' in the lab vs. working with local hospital for care of a LAI patient outside the lab)

09:00-09:20 - **Wei Chen** (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)

09:20-09:50 - **Jianping Zuo** (Principle Investigator, Shanghai Institute of Materia Medica, CAS)

09:50-10:10 - **Yongtang Zheng** (Principle Investigator, Kunming Institute of Zoology, CAS)

10:10-10:30 Tea break

10:30-10:50 - **Rui Gong** (Principle Investigator, Wuhan Institute of Virology, CAS)  
- **Jinghua Yan** (Principle Investigator, Institute of Microbiology, CAS)

10:50-11:10 **Pei-Yong Shi** (Professor, University of Texas) -*Anti-viral countermeasures (strategy and R&D), Discovery and development of antiviral countermeasures*

11:10-11:30 **James Le Duc** (Professor, Galveston National Laboratory) - *Improving the laboratory's role in emergency health response, Communications during crisis*

11:30-13:30 Lunch

#### **Session 4. High-level biosafety Laboratory: construction, commissioning, and sustainment**

- Requirements for high containment labs in China and the U.S and discussion of recent projects
- Community relations and public communication
- Should biocontainment labs have clinical facilities?
- Biocontainment maintenance and operations / Outbreak response / Importance of reference collections and reagents

13:30-13:50 - **Donglai Wu** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

13:50-14:10- **Yunzhang Hu** (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)

14:10-14:30- **Peijun Zhai** (Division Director, China National Accreditation Service for Conformity Assessment)

14:30-14:50 **Thomas Ksiazek** (Professor, Galveston National Laboratory) - *Regulatory issues, pathogen transfers (maintaining reference collections/academic repositories)*

Formatted: Indent: First line: 0"

Deleted: **James Le Duc** (Professor, Galveston National Laboratory) - *Technical aspects of high-containment lab sustainability: challenges of maintaining a maximum containment laboratory: The GNL experience ¶*

¶  
Time?

Formatted: Font: Not Bold

14:50-15:10 Tea break

### Session 5. Biosafety, biosecurity and bioethics

- New technology for laboratory biological risk management
- Improving response to incidents at the lab (fire, police, environment release and paramedic)
- Improving biosafety and biosecurity training
- Laboratory leadership, culture and ethics

15:10-15:30 - **Jianguo Xu** (Academician, National Institute for Communicable Disease Control and Prevention, China)

15:30-15:50 - **Zhiming Yuan** (Principle Investigator, Wuhan Institute of Virology, CAS)

15:50-16:10 - **Qiang Wei** (Division Deputy Director, Chinese Center for Disease Control and Prevention)

16:10-16:30 **Thomas Ksiazek** (Professor, Galveston National Laboratory) - *Biocontainment maintenance and operations and UTMB training programs in Wuhan and Kunming*

16:30-16:50 **David Franz** (Professor, US Army Medical Research Institute of Infectious Diseases) - *Leadership and culture of responsibility*

16:50-17:10 Tea break

~~17:10-18:00 Conclusions from the meeting and discussion on possible roles of CAS and NAS to enhance cooperation between the U.S. and China on Emerging Infections, Laboratory Safety and Global Health Security~~

~~Zhiming Yuan and David Franz Co-chairs~~

~~Concluding remarks~~

18:30-20:30 Dinner

May 19<sup>th</sup>, 2017

(1) A visit to Wuhan P4 Lab

U.S. participants:  
David Franz  
Thomas Ksiazek  
James Le Duc  
Pei-Yong Shi  
David Relman

Deleted: 6

Deleted: 50

Deleted: 7

Deleted: 5

Deleted: Round table discussion ¶

3/27/17

DRAFT v3

Linda Saif  
David Swayne  
Ben Rusek

(2) A visit to Wuhan Botanical Garden or Hubei Provincial Museum

**Second China-U.S. Workshop on the Challenges of Emerging  
Infections, Laboratory Safety and Global Health Security  
May 17-19 2017, Wuhan, China**

In order to further enhance academic exchanges and cooperation between China and the United States, the Second China-U.S. Workshop on the Challenges of Emerging Infections, Laboratory Safety and Global Health Security will be held on May 17-19, 2017 in Wuhan, China. This workshop will mainly focus on safe laboratory construction and operation, innovative biotechnology, prevention of emerging infectious diseases, biosafety and bioethics. By gathering extraordinary reports on scientific and technological achievements, and discussing the current development on related studies, the participants from China and the United States can communicate and get further understanding regarding new issues that occur in field of global health biosafety. Under this condition, this workshop aims at utilizing the advantages of China-U.S. cooperation and collaboration for responding to emerging infectious diseases more positively and guarantee laboratory and global health biosafety, so as to make more contributions to the medical industry and human health.

<b>Organizers</b>	U.S. National Academy of Sciences Chinese Academy of Sciences Wuhan Institute of Virology, CAS Hubei Society for Microbiology
<b>Chairs</b>	David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases) Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Committee</b>	James LeDuc (Professor, Galveston National Laboratory) Peiyong Shi (Professor, University of Texas) Benjamin Rusek (Senior Program Officer, National Academy of Sciences) Xinwen Chen (Director General, Wuhan Institute of Virology, CAS) Yanyi Wang (Deputy Director General, Wuhan Institute of Virology, CAS) Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)
<b>Venue</b>	Wanda Realm Hotel Wuhan
<b>Format</b>	Workshop reports and round table discussions
<b>Language</b>	English
<b>Scale</b>	One hundred participants
<b>Sessions</b>	1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology 2. Emerging infectious diseases and global health security 3. Public health response to outbreaks and issues

4. High-level biosafety Laboratory: construction, commissioning, and sustainment
5. Biosafety, biosecurity and bioethics

**Invited  
participants  
(U.S.)**

Linda Saif (Academician, Ohio State University)  
 David Relman (Academician, Stanford University)  
 James W. Le Duc (Professor, Galveston National Laboratory)  
 Thomas Ksiazek (Professor, Galveston National Laboratory)  
 David R. Franz (Professor, US Army Medical Research Institute of Infectious Diseases)  
 Benjamin J. Rusek (Senior Program Officer, National Academy of Sciences)  
 Peiyong Shi (Professor, University of Texas)  
 David Swayne (Director, USDA Southeast Poultry Research Laboratory)

**Invited  
participants  
(China)**

Yaping Zhang (Vice President, Chinese Academy of Sciences)  
 Zhigao Bu (Deputy Director General, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Donglai Wu (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Hualan Chen (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)  
 Yunzhang Hu (Principle Investigator, Institute of Medical Biology Chinese Academy of Medical Sciences)  
 Peijun Zhai (Division Director, China National Accreditation Service for Conformity Assessment)  
 Yingjin Yuan (Principal, Tianjin University)  
 Wensheng Wei (Professor, Peking University)  
 George F. Gao (Academician, Institute of Microbiology, CAS)  
 Zhengli Shi (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Mifang Liang (Principle Investigator, National Institute for Viral Disease Control and Prevention)  
 Wei Chen (Director General, Institute of Biotechnology, Academy of Military Medical Sciences)  
 Jianping Zuo (Principle Investigator, Shanghai Institute of Materia Medica, CAS)  
 Yongtang Zheng (Principle Investigator, Kunming Institute of Zoology, CAS)  
 Rui Gong (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Jinghua Yan (Principle Investigator, Institute of Microbiology, CAS)  
 Jianguo Xu (Academician, National Institute for Communicable Disease Control and Prevention, China)  
 Zhiming Yuan (Principle Investigator, Wuhan Institute of Virology, CAS)  
 Qiang Wei (Division Deputy Director, Chinese Center for Disease Control and Prevention)  
 Jiahai Lu (Professor, Zhongshan School of Medicine, Sun Yat-Sen University)  
 Gong Cheng (Principle Investigator, Qinghua University)  
 Chengfeng Qin (Professor, The Academy of Military Medical Sciences)  
 Longding Liu (Principle Investigator, Institute of Medical Biology Chinese



Academy of Medical Sciences)

## Agenda

Note: Please reduce each talk by 5 minutes. The 5 minutes will be used for questions.

Deleted: do we want to reduce the presentation times from 20 to 15 mins and add discussion/Q&A at the end of each session?

### May 16<sup>th</sup> 2017

19:00-21:00 VIP Dinner

### May 17<sup>th</sup> 2017

09:00-10:00 Opening Remarks

China: **-Yaping Zhang** (Vice President, Chinese Academy of Sciences)  
**-Speech by Chinese Organizer** (possibly Director General from WIV)

U.S.: **Linda Saif** (Academician, Ohio State University) (5-10 min) - *Introduction and welcome from NAS*

**David Relman** (Academician, Stanford University) (10-15 min) - *Introduction and strategic overview from NAM*

**James LeDuc** (Professor, Galveston National Laboratory) (10-15min) - *P4 operation and sustainability -*

10:00-10:30 Tea break and group photo

### Session 1. Gain of function research, gene editing, targeting and delivery and other novel biotechnology

- Thoughts on Gain of function research, gene editing, targeting and delivery and other novel biotechnology
- the recent advances in technology and their applications

10:30-10:50 - **Yingjin Yuan** (Principal, Tianjin University)

10:50-11:10 - **Hualan Chen** (Principle Investigator, Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences)

11:10-11:30 - **Wensheng Wei** (Professor, Peking University)

11:30-11:50 - **David Relman** (Academician, Stanford University) - *Gene editing and advances in synthetic biology: challenges and opportunities*

11:50-12:20 - **David R. Franz** (Professor, US Army Medical Research Institute of Infectious Diseases) - *Gain-of-Function Research*

-